WATSON VR-3780

MODEL

SERVICE MANUAL

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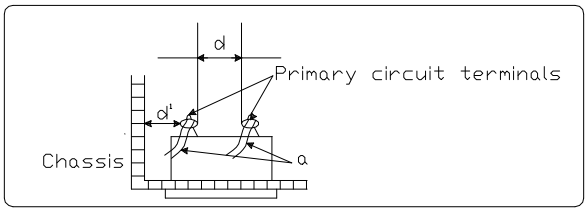
SAFETY & PRECAUTIONS

SAFETY CHECK AFTER SERVING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screw, parts and wires have been returned to original positions. Afterwards, perform the following tests and conform the specified values in order to verify compliance whit safety standards.

1. Insulation resistance test
   Confirm the specified insulation resistance between power cord plug prong and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.) isgreater than values given in table 1 below.

2. Dielectric strengthen test
   Confirm specified dielectric strengthen between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input output terminals, microphone jack, ear phone jacks, etc.) is greater than values given table 1.



3. Clearance distance
   When replacing primary circuit component, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

   Rating for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
100V	Japan	≥1MΩ/500V DC	1kV AC 1min.	≥ 3
110 to 130V	USA & Canada	-	900V AC 1min.	≥ 3.2
* 110 to 130V 200 to 240V	Europe Australia Latin America	≥10MΩ/500V DC	4kV AC 1min.	≥ 6(d) ≥ 8(d') (a :Power cord)

* : Class model only

NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality

4. Leakage current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input output terminals, microphone jacks, earphone jacks, etc.)

Measuring method:(Power ON) Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use on AC voltmeter to measure across both terminals of load Z. See figure2 and following table.

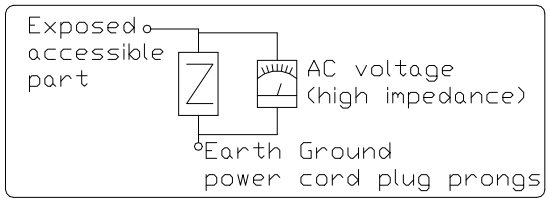


Fig.2

Leakage current ratings for selected are as

AC Line Voltage	Region	Load Z	Leakage Current(*i*)	Clearance Distance(d),(d')
100V	Japan	1kΩ	*i* ≤ 1 mArms	Exposed accessible parts
110 to 130V	USA &Canada	15kmF 1kΩ	*i* ≤ 0.5mArms	Exposed accessible parts
110 to 130V 200 to 240V	Europe Australia	2kΩ	*i*≤ 0.7mA peak *i*≤ 2mAdc	Antenna earth terminals
		50kΩ	*i*≤ 0.7mA peak *i* ≤ 1mAdc	Other terminals

NOTE

This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

EXTERNAL VIEWS

1. FRONT VIEWS FUNCTION

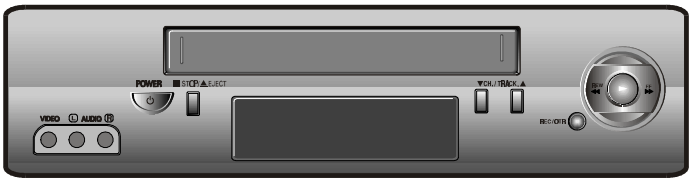
DVST7C3 FRONT VIEW

DVST7E3 FRONT VIEW

DVST7L3 FRONT VIEW

DVST7M3 FRONT VIEW

DVST7J3 FRONT VIEW



DVST7D3 FRONT VIEW

DVST7B3 FRONT VIEW

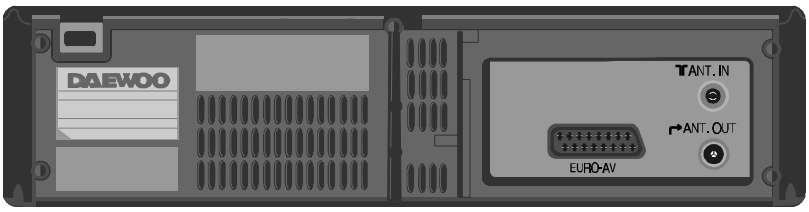
DVST8T3 FRONT VIEW

DVST8W3 FRONT VIEW

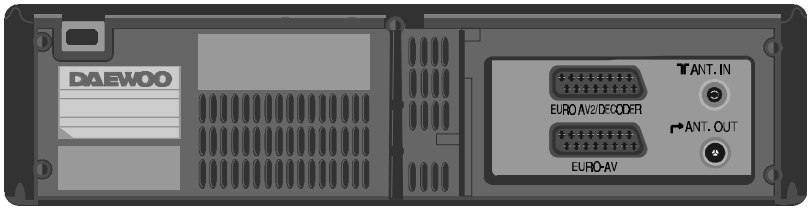
POWER
STOP / EJECT
RECORD
FRONT VIDEO/AUDIO INPUT JACK
REWIND / REVIEW
FAST FORWARD / CUE
PLAY BACK
CHANNEL UP / DOWN

2. REAR VIEWS FUNCTION

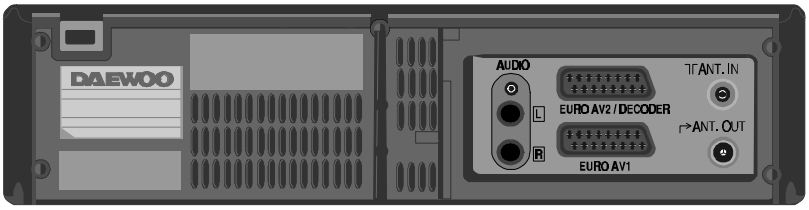
MONO 1 SCART TYPE REAR VIEW



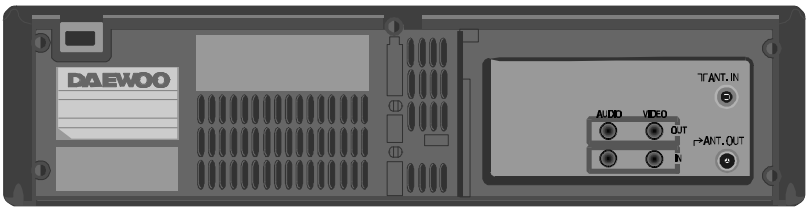
MONO 2 SCART TYPE REAR VIEW



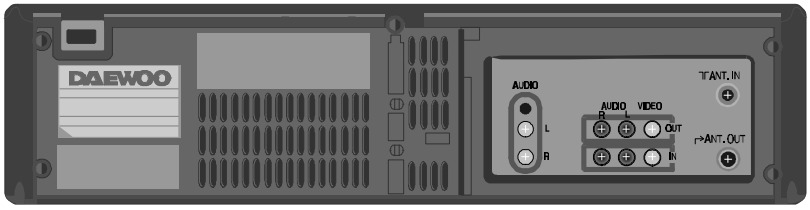
HI-FI 2 SCART TYPE REAR VIEW



MONO RCA TYPE REAR VIEW



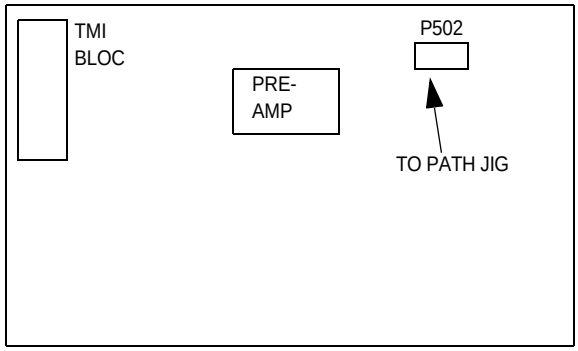
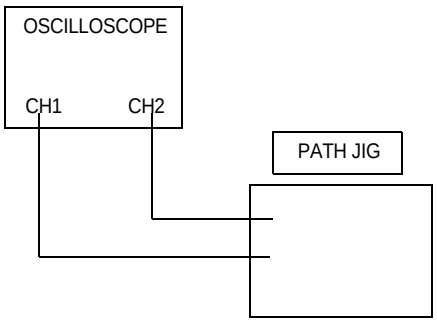
HI-FI RCA TYPE REAR VIEW



ELECTRICAL ADJUSTMENT

1. PLAYBACK PHASE

ITEM	MODE	ADJUSTMENT POINT	CHECK POINT	TEST EQUIPMENT	TEST TAPE	INPUT SIGNAL
6.5H ADJUSTMENT	PLAY	[REC] BUTTON	PIN 4 & PIN 5 OF P502	OSCILLOSCOPE	DP-2	NO SIGNAL

ADJUSTMENT PARTS	MEASURING POINT
PCB : MAIN - TOP VIEW 	

ADJUSTMENT PROCEDURE

1. Play back the test tape. (DP-2)

2. Set the oscilloscope to the CHOP mode. Connect CH1 to the SW PULSE (PIN 4 of P502)

3. Connect CH2 to the ENVE signal (PIN5 of P502)

4. Insert PATH JIG and press "REC" button on the remote control.

5. Check the position of the V-sync from the rising edge of the SW pulse.
   (Standard : 6.5H ± 0.5H)

SPECIFICATIONS

GENERAL	
Power Requirement	AC 230V, 50Hz
Power Consumption	Max. 17W (in REC mode)
Temperature	5×C ~ 35×C (Operating) -20×C ~ 60×C
Operating position	Horizontal only
Dimensions (W x H x D)	360 x 90 x 288 (mm)
Weight	Approx. 3.85 Kg
Format	VHS standard
Tape Width	12.65mm
Tape Speed	(SP) : 23.39mm/sec (LP) : 11.70mm/sec
Maximum Recording Time with full-size cassette	(SP) :240min, with E-240 video cassette (LP) :480min, with E-240 video cassette
VIDEO	
Signal system	PAL/SECAM colour and CCIR monochrome signals, 625 lines/50 fields
Recording system	Rotary two-head helical scan with a slant double-azimuth combination video head
Input	1.0Vp-p, 75ohms, unbalanced
Output	1.0Vp-p, 75ohms, unbalanced
Signal-to-Noise ratio	45dB (Rhode & Schwarz noise meter) with NETTETE IMAGE control at center position
Horizontal resolution	240 lines with NETTETE IMAGE control at center position
AUDIO	
Recording system	Longitudinal track
Input	-8dBm, (CENELEC standard),more than 47 k-ohms, unbalanced
Output	-6dBm, (CENELEC standard), less than 1k-ohms, unbalanced(100k-ohms, load)
Frequency Range	100Hz to 8,000Hz
Signal to Noise Ratio	More than 38dB
Audio Distortion	Less than 3% (SP)
TUNER	
Tuning system	Voltage synthesized tuner Programmable V/S 99CH (Hyper band)
RF Output	UHF channel 21~69 (52)
TIMER	
Memory programmable	99 CH
Back up time	Less than 1 Hour
Clock exactness	In accordance with the exactness of power supply frequency (50Hz)
ACCESSORIES	
Provided Accessories	Remote control unit, RF Cable, Battery

* Design and specification can be subjected to change without notice.

CHANNEL COVERAGE

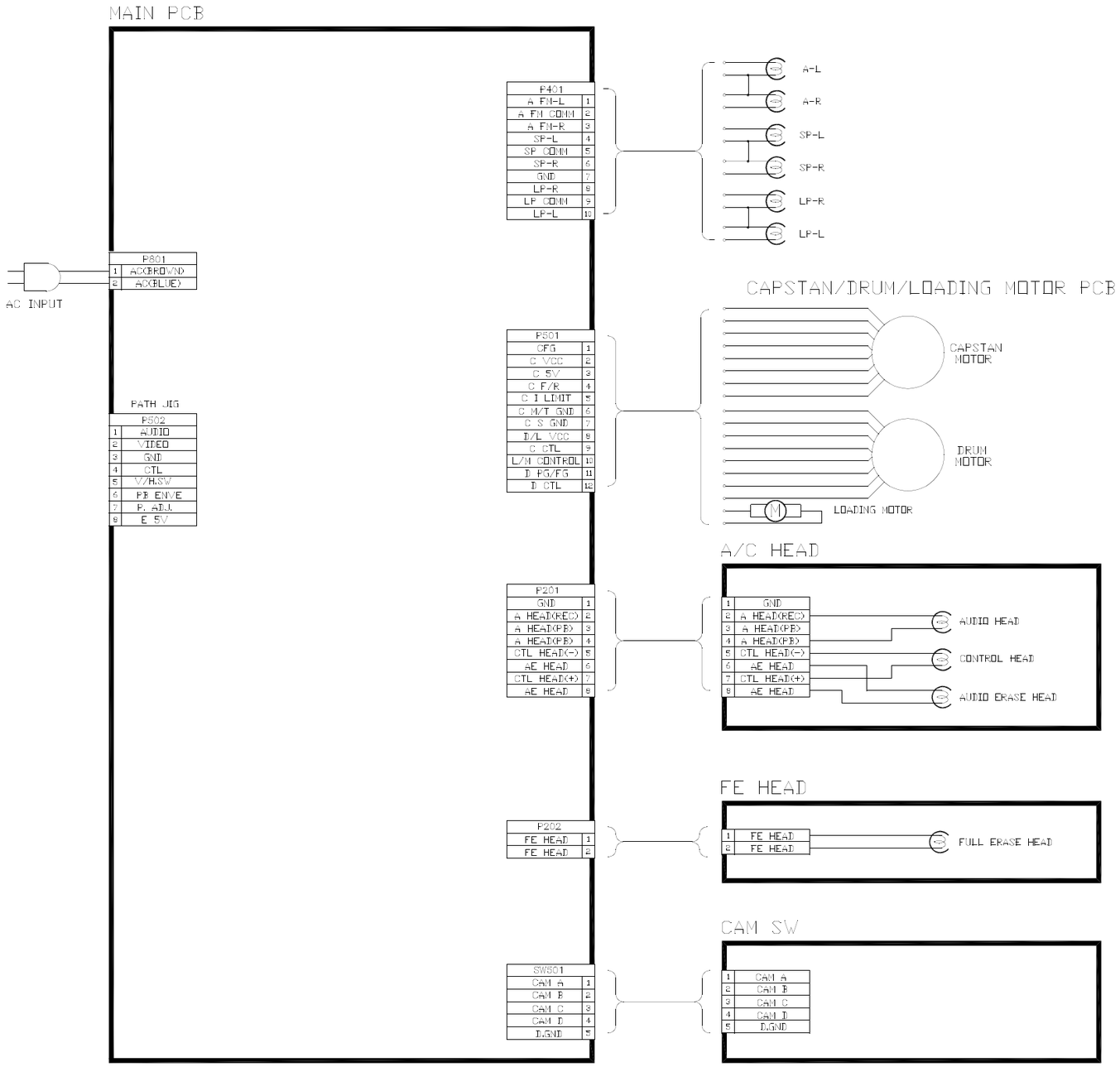
SYSTEM	SECAM-L PAL, SECAM-B/G, PAL-I/I PAL, SECAM-B/G, D/K, HYPER BAND	PAL-I
CHANNEL	VHF Ch 2~12 UHF Ch 21~69 CATV Ch X,Y,Z S1~S41	UHF Ch 21~69

INPUT/OUTPUT JACK TYPE

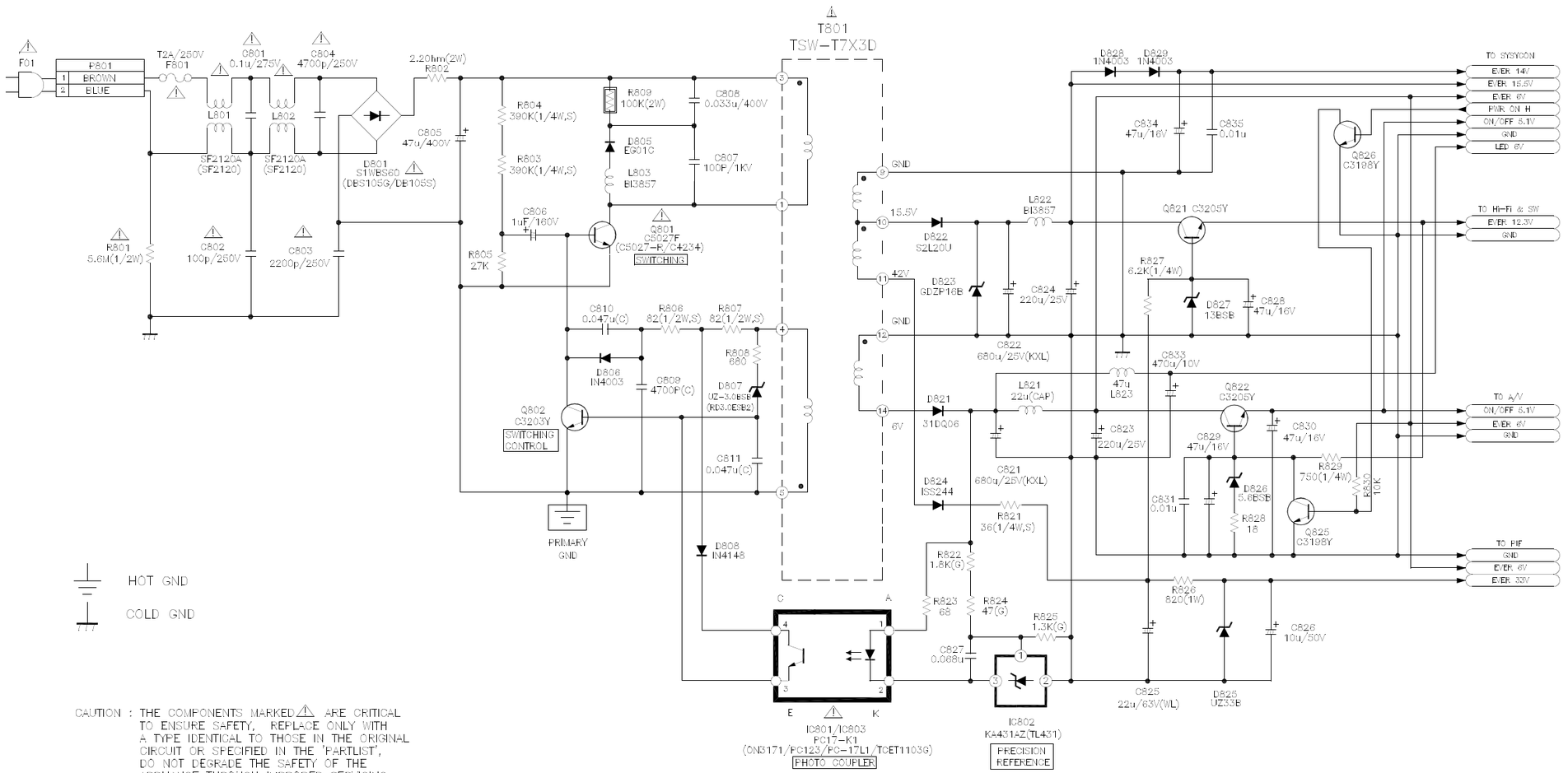
Model	EUROPE	Asia, South Africa, Australia
Jack Type	SCART Type	RCA Jack (Phone Jack)

CIRCUIT INFORMATION

1. INTERCONNECT WIRING DIAGRAM

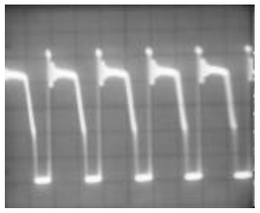


2. POWER CIRCUIT DIAGRAM



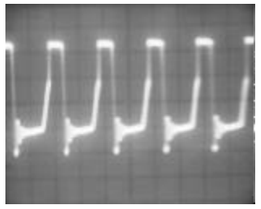
POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
IC802	1	2.46	2.46	2.46
	2	4.81	4.83	4.82
	3	0	0	0.01
IC801 /803	1	5.88	5.89	5.89
	2	4.81	4.83	4.83
	3	0.25	0.25	0.25
	4	3.1	3.1	3.1

POWER		MODE		
LOC.	PIN	EE	PLAY	REC.
Q801	E	0	0	0
	B	-0.12	-0.11	-0.72
	C	323	323	323
Q802	E	0	0	0
	B	0.25	0.26	0.17
	C	0.12	0.11	0.17
Q821	E	12.58	12.6	12.6
	B	13.2	13.2	13.2
	C	15.6	15.36	15.4
Q822	E	5.2	5.19	5.2
	B	5.89	5.89	5.89
	C	5.97	5.97	5.96
Q825	E	0	0	0
	B	0	0	0
	C	5.89	5.89	5.89
Q826	E	0	0	0
	B	0.73	0.73	0.73
	C	0	0	0

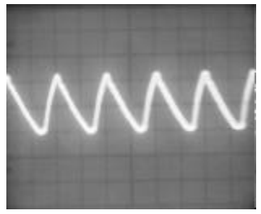


1. T801 PIN 1 X : 0.1KV DIV
Y : 5uS DIV

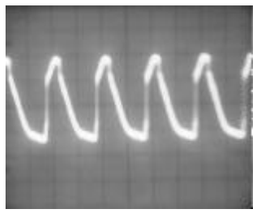
2. T801 PIN 3 X : 2V DIV
Y: 2mS DIV



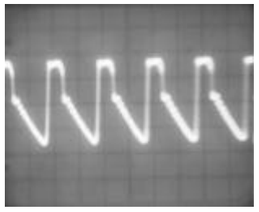
3. T801 PIN4 X: 5V DIV
Y: 5uS DIV



4. IC801 PIN3 X : 0.5V DIV
Y : 5uS DIV

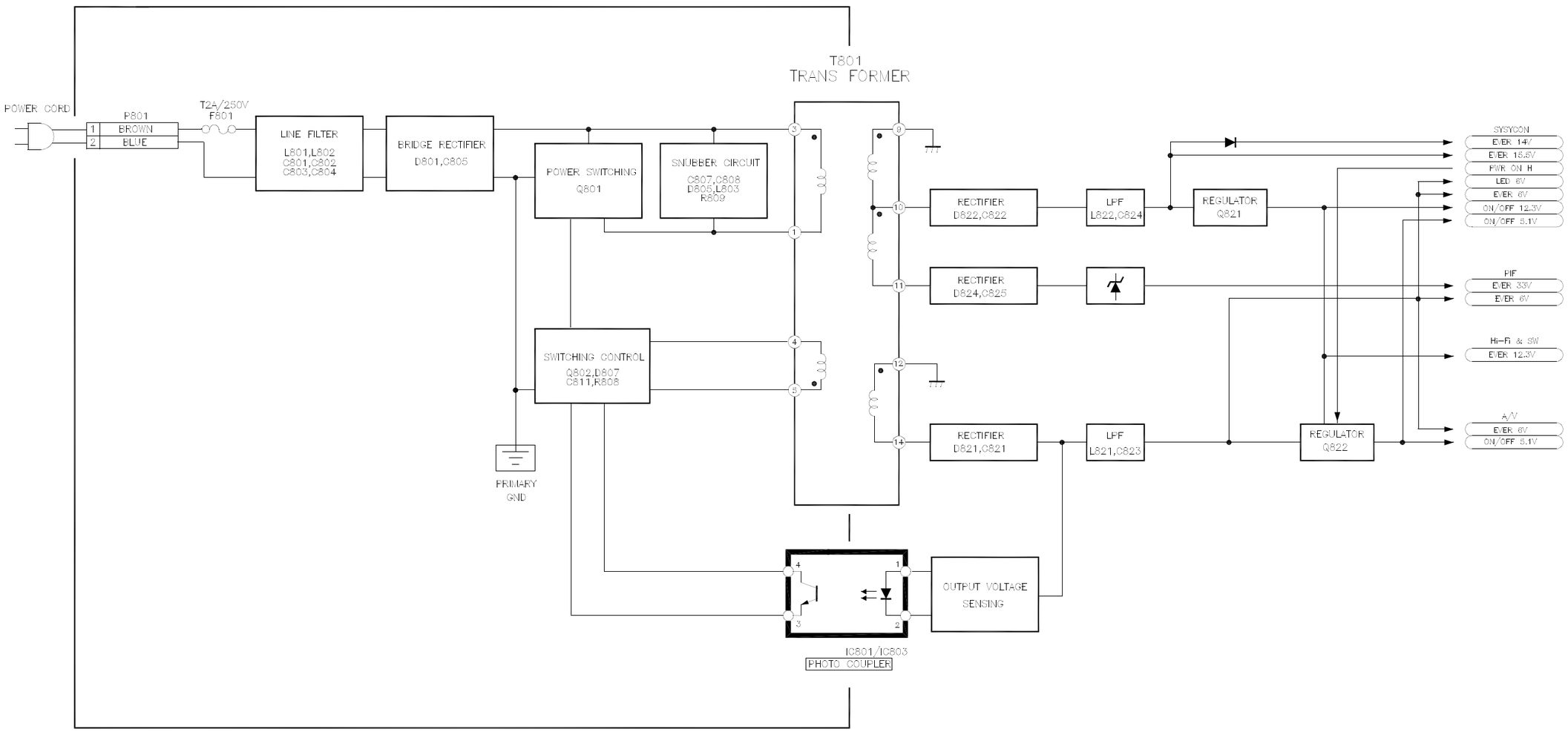


5. IC801 PIN 4 X: 2V DIV
Y : 5uS DIV

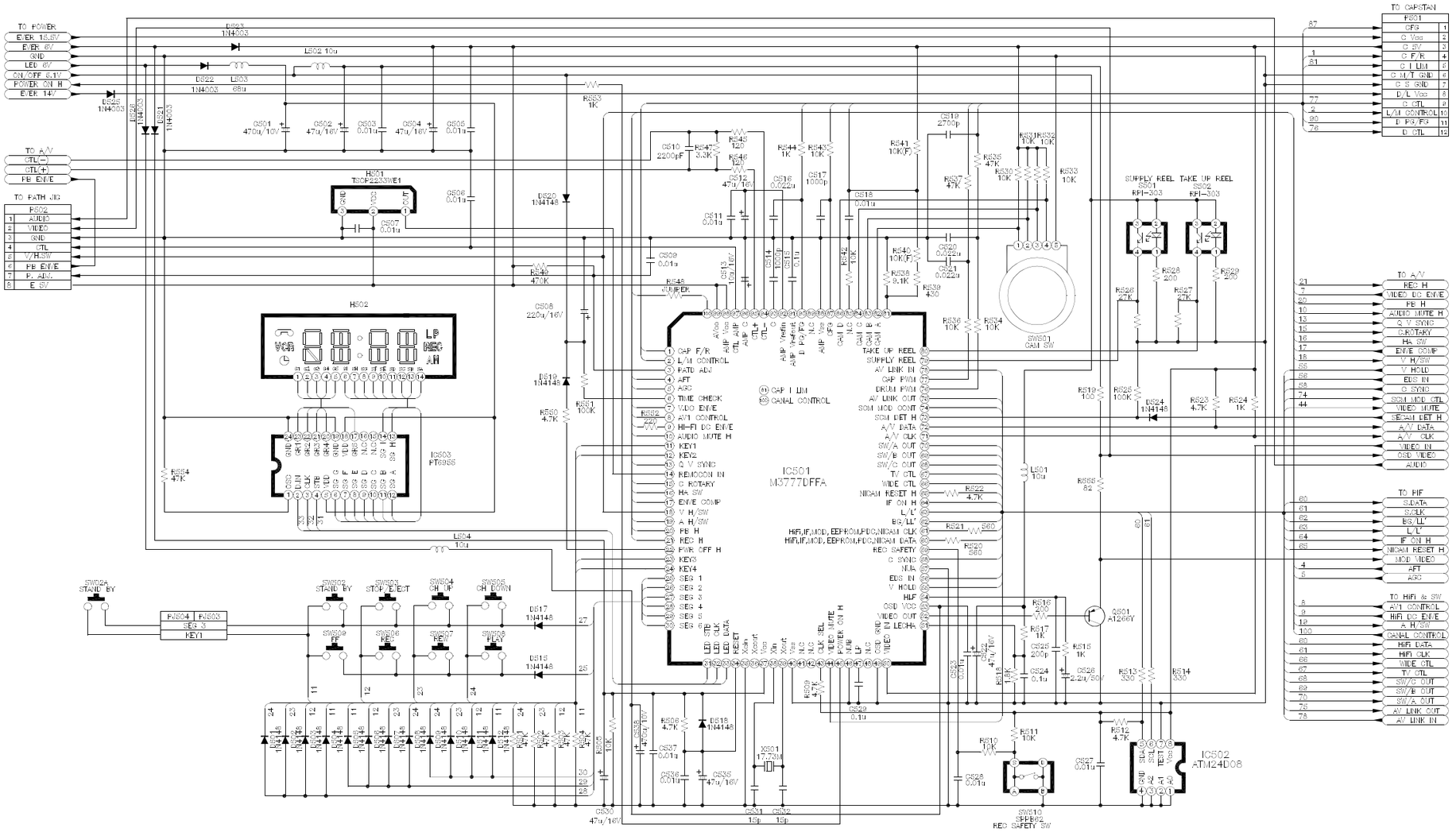


6. Q801 base X: 0.5V DIV
Y : 5uS DIV

3. POWER BLOCK DIAGRAM



4. SYSCON CIRCUIT DIAGRAM



*OPTION TABLE

SYSTEM OPTION	DIODE DS01	DIODE DS02	REMARKS
PAL-BG	X	X	
SECAM(France)	X	X	FRANCE
SECAM(Swiss)	X	0	SWITZERLAND
PAL-I	0	X	U.K
PAL-I/I	0	0	S.IRELAND

PDC OPTION	DIODE DS03
NOT APPLIED	X
APPLIED	0

TIME REFRESH OPTION	DIODE DS04
REFRESH ON	X
REFRESH OFF	0

1/2 PERI OPTION	DIODE DS05
2 PERI	X
1 PERI	0

FNT A/V OPTION	DIODE DS06
NOT APPLIED	X
APPLIED	0

GEMSTAR CODE OPTION	DIODE DS07
SV/VP	X
G-CODE	0

SHOWVIEW ENABLING	DIODE DS08
APPLIED	X
NOT APPLIED	0

HEAD/SPEED OPTION	DIODE DS09	DIODE DS10	REMARKS
40/40 SP/LP	X	X	Central Europe / Australia
57/75 SP	X	0	Central Europe
PAL 4HD	0	X	PAL 4H'D/Hi-Fi
40/40 SP/LP	X	X	U.K/S.Ireland(PAL-I)
PAL 4HD	X	0	U.K/S.Ireland(PAL-I)
40/40 SP	0	X	France(SECAM)
SECAM 4H'D	0	0	France(SECAM)

NEW ZEALAND OPTION	DIODE DS11
AUSTRALIA	X
NEW ZEALAND	0

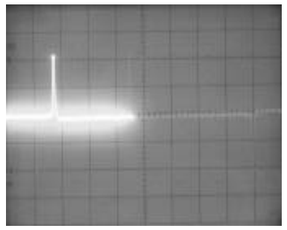
FINLAND OPTION	DIODE DS12
NOT APPLIED	X
APPLIED	0

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC501	1	0	0	0
	2	2.63	2.61	2.61
	3	4.64	4.97	4.96
	4	2.3	0	2.2
	5	1.8	0	2.1
	6	4.74	5.04	5.1
	7	1.4	2.28	1.13
	8	0.01	4.73	0.01
	9	1.9	1.85	0.14
	10	0.04	0.01	0.01
	11	0	0	0
	12	1.63	1.58	1.57
	13	5.2	0.01	0.01
	14	5.2	5.2	5.18
	15	2.6	2.6	2.6
	16	5.2	5.2	5.2
	17	2.82	0	0
	18	0	2.61	2.6
	19	2.61	0	2.6
	20	0	5.23	0
	21	0	0	5.13
	22	0	0	0
	23	0.78	0.79	0.8
	24	0.78	0.79	0.8
	25	0.87	0.01	0.87
	26	0.87	0.87	0.87
	27	0.87	0.87	0.87
	28	0.87	0.87	0.87
	29	0.87	0.87	0.87
	30	0.87	0.87	0.01
	31	1.41	0.03	1.4
	32	5.05	0.05	0.07
	33	0.76	0.02	0.77
	34	5.25	5.25	5.23
	35	000		
	36	1.54	1.52	1.53
	37	5.2	5.25	5.1
	38	2.32	2.32	2.31
	39	0	0.01	2.6
	40	0	0.01	0.11
	41	0	0	0.12
	42	5.23	5.23	5.1
	43	5.25	5.23	5.23
	44	1.8	1.9	1.7
	45	5	5	4.9
	46	0.01	0	0.12
	47	1.8	1.86	1.7
	48	0.01	0	0.12
	49	0.02	0	0
	50	1.9	1.97	1.7
	51	3.3	3.3	3.2
	52	1.9	1.97	2.1
	53	5.25	5.25	5.25
	54	2.23	2.23	2.23
	55	1.92	1.97	1.75
	56	1.9	1.98	1.87
	57	0	0	0
	58	4.48	0.33	4.49
	59	5.21	5.21	0
	60	4.82	4.8	4.84
	61	4.96	4.8	4.91

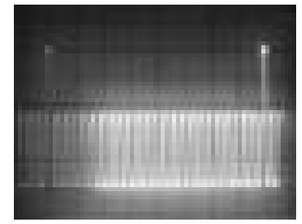
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
	62	0.01	0.03	0
	63	0	0	0
	64	5.18	0	5.18
	65	5.18	0.01	5.18
	66	0.04	0.01	0.12
	67	0	5.2	0
	68	0	0.01	0
	69	0	0	0.12
	70	5.17	5.17	5.15
	71	5.04	5.01	5.01
	72	5.01	5.01	5.01
	73	0.12	0.14	0.08
	74	0.3	2.58	0.09
	75	0.03	0	0.09
	76	0	2.5	2.57
	77	0	2.6	2.72
	78	1.33	0	0.09
	79	0	0↔5	0↔5
	80	5.02	0↔5	0↔5
	81	1.6	0.01	1.58
	82	5.21	0	0
	83	4.55	5.01	5.01
	84	5.01	5.01	5.19
	85	0.01	0.01	0
	86	5.21	0.01	0
	87	4.23	2.49	2.48
	88	0	0.01	0
	89	0	0.01	1.51
	90	0.01	1.28	1.28
	91	2.58	2.58	2.58
	92	2.6	2.6	2.6
	93	0	0	0
	94	2.6	2.6	2.28
	95	2.56	2.56	2.89
	96	2.56	2.56	2.56
	97	2.57	2.59	2.57
	98	5.01	5.01	5.01
	99	5.22	5.21	5.2
	100	0	0.01	0

SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
IC502	1	0	0	0
	2	0	0	0
	3	0	0	0
	4	0	0	0
	5	4.96	4.85	4.9
	6	4.96	4.88	4.9
	7	0	0	0
	8	5.22	5.22	5.2

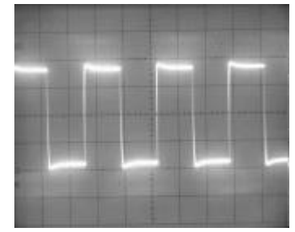
SYSCON		MODE		
LOC.	PIN	EE	PLAY	REC.
Q501	E	2.82	3.06	2.81
	B	2.12	2.35	2.11
	C	0.01	0.01	0.02



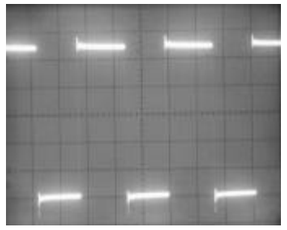
1. IC501 PIN97 X: 1V DIV
CTL AMP OUT Y : 5mS DIV



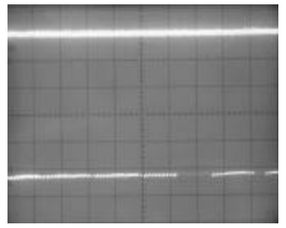
2. IC501 PIN 89 X : 0.5V DIV
DRUM FG Y :0.5ms DIV



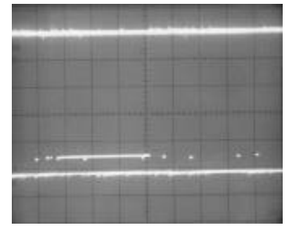
3. IC501 PIN 87 X: 1V DIV
CAPSTAN FG Y : 0.5mS DIV



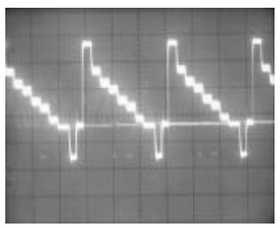
4. IC501 PIN 77 X : 1V DIV
CAPSTAN PWM Y : 5uS DIV



5. IC501 PIN61 X: 1V DIV
SERIAL CLK Y: 0.1mS DIV

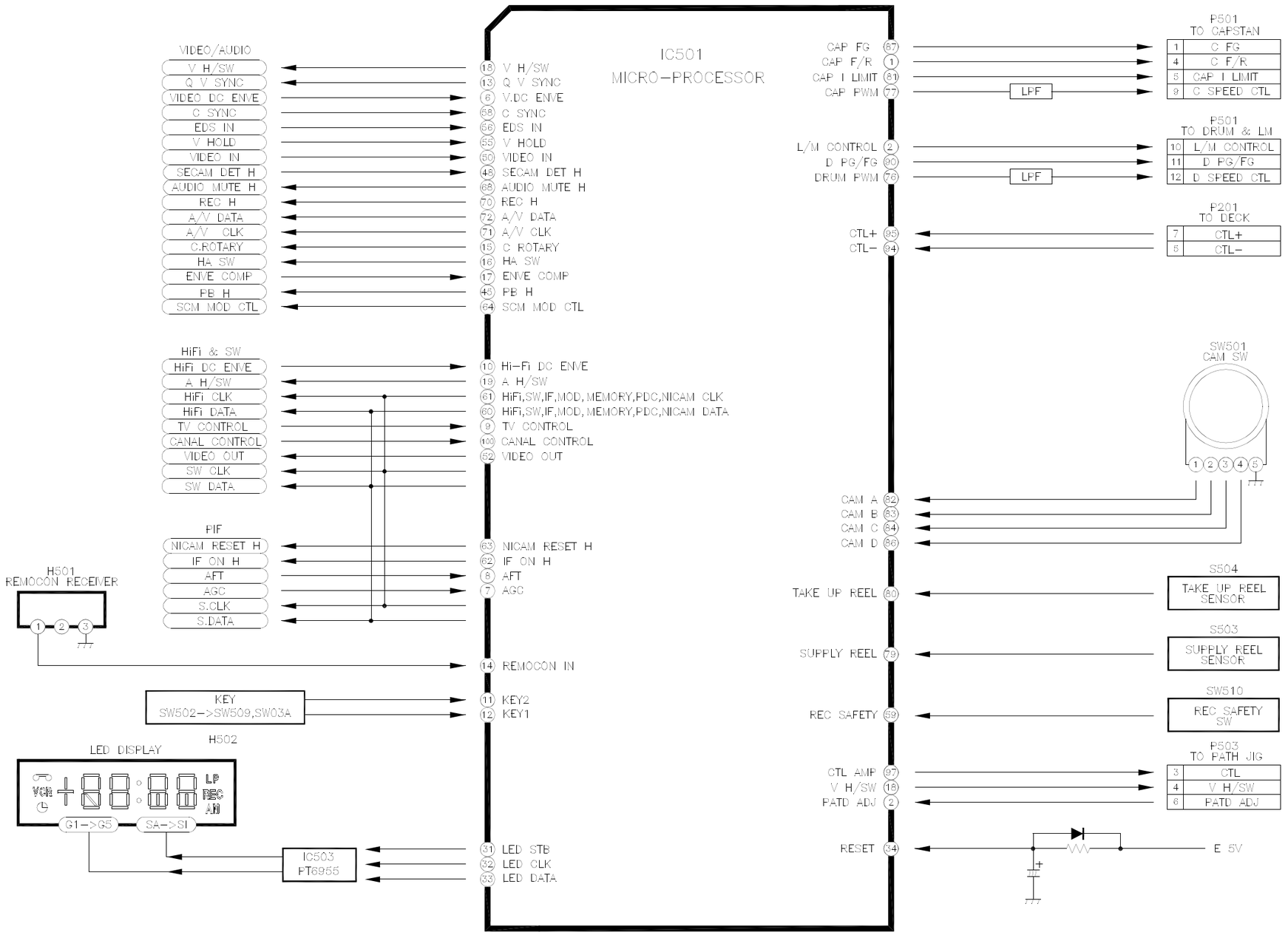


6. IC501 PIN60 X : 1V DIV
SERIAL DATA Y : 0.1mS DIV

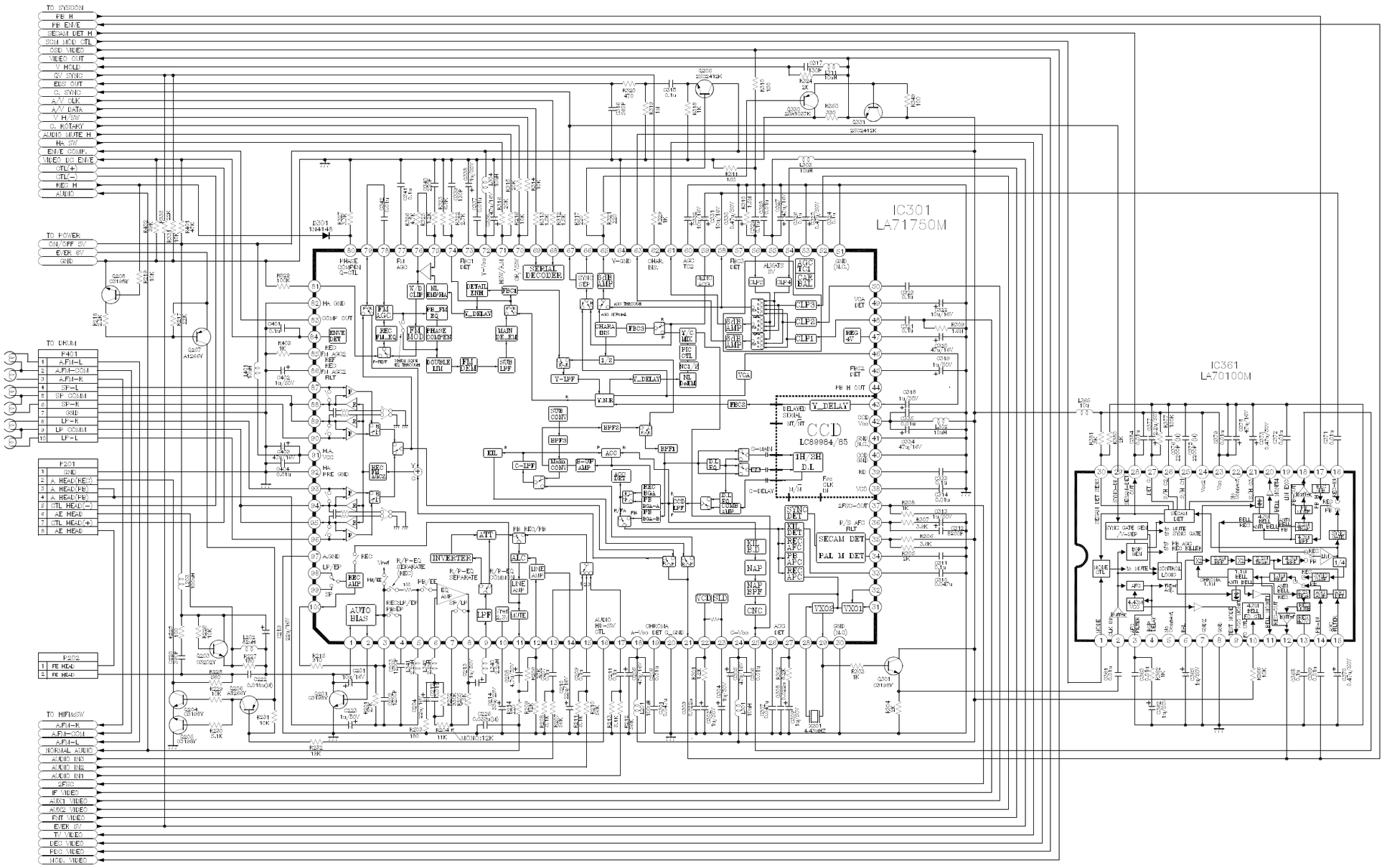


7. IC501 PIN 56 X : 0.5V DIV
EDS IN Y: 20uS DIV

5. SERVO & SYSCON BLOCK DIAGRAM



6. AV & SECAM COLOR CIRCUIT DIAGRAM

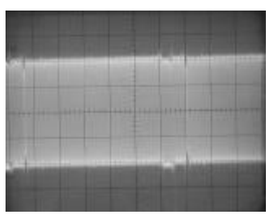


A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
IC301	1	5.09	0.1	0.78
	2	0.03	0.03	0.84
	3	2.29	2.28	2.55
	4	0.33	0.17	0.62
	5	2.28	2.27	2.49
	6	2.29	2.28	2.27
	7	2.28	2.28	2.28
	8	2.28	2.28	2.28
	9	2.28	2.28	2.25
	10	2.29	2.28	2.28
	11	2.4	2.4	2.4
	12	0.02	0.02	0.02
	13	2.29	2.28	2.27
	14	0.05	0.04	0.04
	15	2.29	2.28	2.27
	16	5.16	0.18	5.15
	17	2.29	2.28	2.27
	18	5.15	5.121	5.14
	19	4.21	4.16	4.13
	20	0.02	0.02	0.02
	21	3.32	1.99	3.32
	22	3.2	3.17	3.2
	23	3.2	3.2	3.2
	24	5.16	5.13	5.16
	25	0.16	3.3	0.15
	26	1.42	1.67	1.42
	27	2.1	2.1	2.04
	28	4.2	4.16	4.17
	29	2.79	2.74	2.81
	30	0.02	0	0.02
	31	0	0	0
	32	5.07	4.91	4.97
	33	2.12	2.03	2.11
	34	1.57	1.57	1.57
	35	2.1	2.09	2.1
	36	3.48	3.45	3.59
	37	1.69	1.66	1.72
	38	2.04	2.01	2.08
	39	9.5	9.47	9.48
	40	0.02	0.02	0.02
	41	0.02	0.02	0.02
	42	5.16	5.13	5.15
	43	2.23	2.44	2.23
	44	0.06	4.21	0.04
	45	2.27	2.28	2.29
	46	2.42	2.67	2.43
	47	4.15	4.15	4.16
	48	1.89	1.89	1.88
	49	2.94	3.16	2.94
	50	1.95	1.95	1.93
	51	0.02	0.02	0.02
	52	1.94	1.95	1.92
	53	1.35	2.34	2.18
	54	1.94	1.95	1.92
	55	5.17	5.17	5.14
	56	2.17	2.31	2.16
	57	2	2.15	2
	58	1.98	1.98	1.98
	59	2.93	2.95	2.92
	60	1.43	1.58	1.43
	61	1.57	1.86	1.58
	62	0	0.07	0.07

A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
	63	1.19	1.02	1.21
	64	0.02	0.02	0.02
	65	0.85	1.92	0.86
	66	0.06	1.45	0.07
	67	4.49	0.35	4.49
	68	5.05	5.07	5.05
	69	5	5.01	5.01
	70	0.01	2.61	2.6
	71	1.73	1.68	1.67
	72	5.12	5.1	5.11
	73	2.2	2.06	2.2
	74	2.3	2.6	2.31
	75	2.22	0.69	2.23
	76	2.22	0.76	2.23
	77	1.7	1.52	1.6
	78	2.66	3.37	2.67
	79	2.02	1.96	2.52
	80	0.95	0.96	4.53
	81	1.15	1.14	1.15
	82	0.02	0.02	0.02
	83	0.45	1.35	1.28
	84	1.39	2.26	1.13
	85	0.39	0.02	0.66
	86	0.2	0.27	1.63
	87	1.93	1.96	4.35
	88	1.93	1.95	4.33
	89	1.93	1.95	4.33
	90	1.93	1.96	4.35
	91	5.14	5.12	5.12
	92	0.02	0.02	0.02
	93	1.94	0.74	0.73
	94	1.94	0.74	0.73
	95	1.94	0.74	0.73
	96	1.95	0.74	0.73
	97	0	0.02	0.02
	98	2.29	2.29	2.43
	99	2.29	2.29	2.43
	100	2.29	2.29	2.56

A/V		MODE		
LOC.	PIN	EE	PLAY	REC.
Q201	E	0.02	0.02	0.02
	B	0.03	0.03	0.84
	C	5.11	0.1	0.77
Q203	E	3.51	0.1	0.89
	B	3.43	0.04	1.64
	C	5.04	0.04	4.83
Q204	E	0	0.02	-14.24
	B	0	0.7	-19.43
	C	5.11	0.03	1.05
Q205	E	0.14	0.02	-14.15
	B	0	0.71	-18.87
	C	0.02	0.02	0.02
Q206	E	5.16	5.16	5.16
	B	5.16	4.46	5.15
	C	1.81	5.12	-19.1
Q207	E	5.97	5.97	5.91
	B	5.96	5.96	5.11
	C	5.34	0.02	5.07
Q208	E	0	0	0
	B	0	0	0.68
	C	5.96	5.96	0.02
Q301	E	2.14	2.13	2.15
	B	2.78	2.76	2.76
	C	5.16	5.15	5.15
Q305	E	1.4	1.32	1.4
	B	2.03	2.3	2.06
	C	5.17	5.17	5.16
Q330	E	2.73	2.01	2.73
	B	2.05	2.67	2.05
	C	0	0.12	0
Q331	E	2.06	2.32	2.06
	B	2.73	2.98	2.72
	C	5.17	5.17	5.16

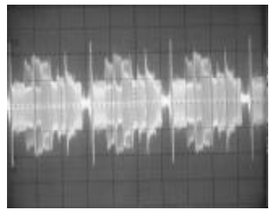
SECAM COLOR		MODE		
LOC.	PIN	EE	PLAY	REC.
IC361	1	2.58	2.58	2.55
	2	2.39	2.4	2.4
	3	3.6	3.59	3.63
	4	2.67	2.66	2.64
	5	0.02	0	0.01
	6	0.38	3.72	0.49
	7	0.02	0.02	0.03
	8	0.02	0.02	0.03
	9	3.13	3.13	3.12
	10	4.83	4.83	4.79
	11	1.96	1.95	2
	12	2.2	1.99	2.28
	13	3.98	3.98	3.99
	14	2.61	2.61	2.58
	15	3.1	2.6	3.13
	16	3.18	3.18	3.19
	17	0	5.23	0
	18	0.14	2.1	0.15
	19	2.27	2.27	2.3
	20	1.9	2.95	1.93
	21	2.04	2.32	2.03
	22	0.9	0	0.01
	23	5.15	5.14	5.13
	24	5.15	5.14	5.13
	25	2.26	2.21	2.27
	26	2.26	2.21	2.24
	27	4.85	4.9	4.84
	28	4.66	4.65	4.64
	29	0.39	0.35	0.39
	30	1.83	1.83	1.83



1. IC301 PIN78 X: 0.1V DIV
RECY-FM Y : 10uS DIV

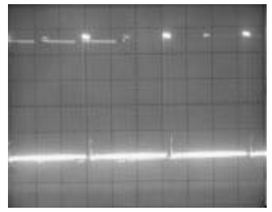
2. IC301 PIN21 X: 0.1V DIV
REC COLOR(PAL) Y:20uS DIV

3. IC301 PIN25 X: 0.1V DIV
PB COLOR(PAL) Y: 20uS DIV

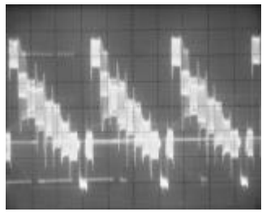


4. IC301 PIN25 X: 0.1V DIV
REC COLOR (SCM)Y :20uS DIV

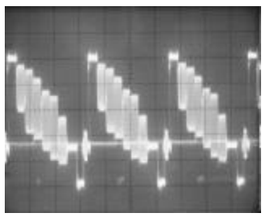
5. IC301 PIN21 X: 0.1V DIV
PB COLOR(SCM) Y : 20uS DIV



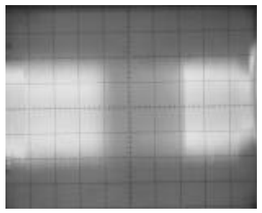
6. IC301 PIN3 X : 1V DIV
C.SYNC Y : 20uS DIV



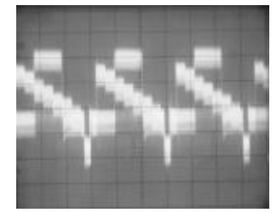
7. IC301 PIN58 X: 0.2V DIV
REC SECAM Y: 20uS DIV



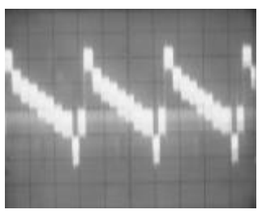
8. IC301 PIN50 X: 0.2V DIV
VIDEO INPUT(REC) Y : 20uS DIV



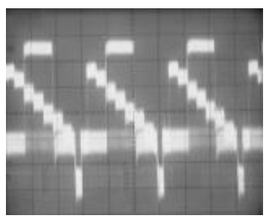
9. IC301 PIN79 X : 0.1V DIV
PB ENVE Y : 2mS DIV



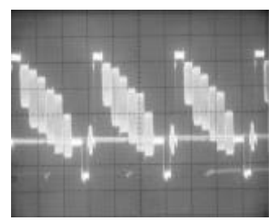
10. IC301 PIN43 X : 0.1V DIV
Y-DLY OUT(PB) Y 20uS DIV



11. IC301 PIN43 X: 0.1V DIV
Y-DLY OUT(REC) Y : 20us DIV

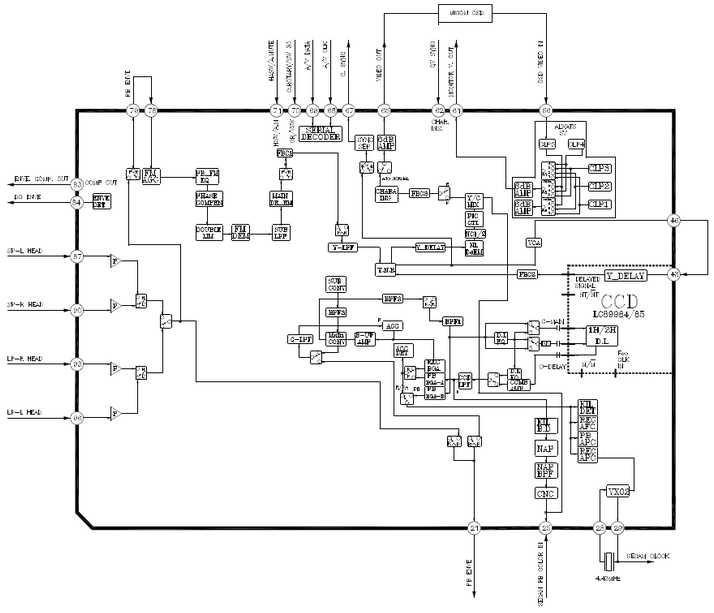


12. IC301 PIN74 X: 0.1V DIV
DEEMPHA OUT (PB) Y:20uS DIV

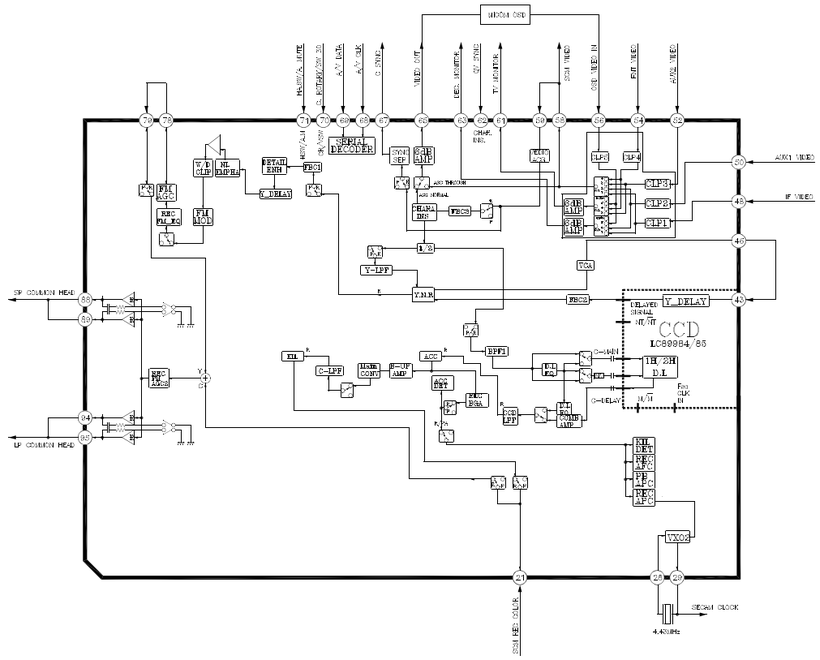


13. IC301 PIN65 X: 0.5V DIV
VIDEO OUT(REC) Y : 20uS DIV

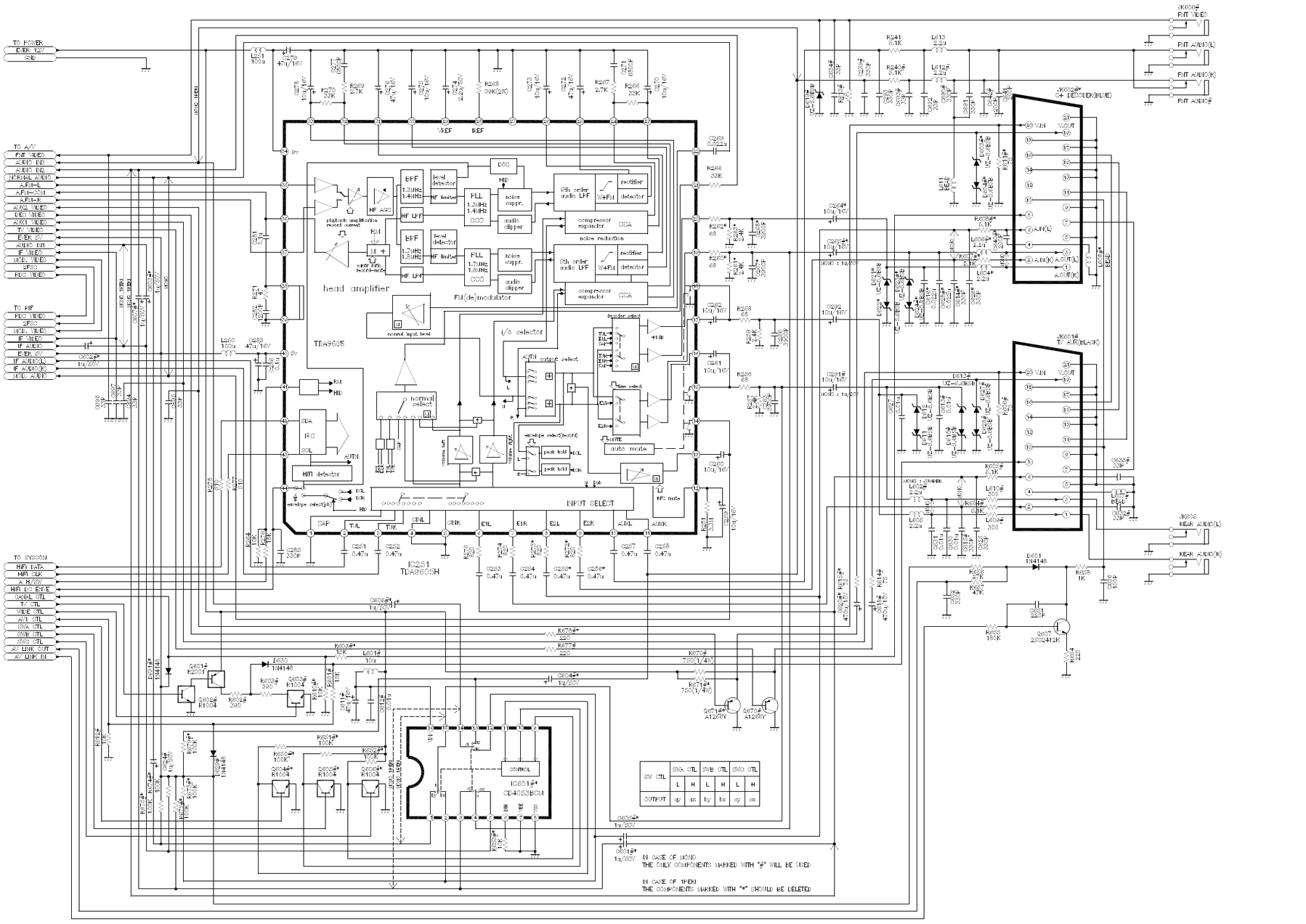
7-1. VIDEO PLAYBACK PATH FOR PAL



7-2. VIDEO RECORD PATH FOR PAL



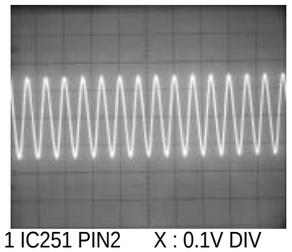
8. HIFI & SW CIRCUIT DIAGRAM



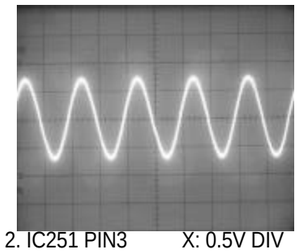
SW CTL	SWA CTL		SWB CTL		SWC CTL	
	L	H	L	H	L	H
OUTPUT	ay	ax	by	bx	cy	cx

HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC251	1	0.00	0.00	0.00
	2	3.90	3.90	3.90
	3	3.90	3.90	3.90
	4	0.00	0.00	0.00
	5	0.00	0.00	0.00
	6	3.90	3.91	3.91
	7	3.90	3.90	3.90
	8	3.90	3.90	3.90
	9	3.90	3.90	3.90
	10	3.90	3.90	3.90
	11	3.90	3.90	3.90
	12	0.06	0.00	0.00
	13	3.90	3.90	3.90
	14	0.00	0.00	0.00
	15	0.00	0.00	0.00
	16	4.62	4.62	4.64
	17	4.62	4.64	4.64
	18	0.00	0.00	0.00
	19	4.62	4.62	4.64
	20	4.62	4.62	4.64
	21	4.62	4.61	4.64
	22	3.90	3.90	3.90
	23	3.91	3.92	3.92
	24	3.92	3.92	3.92
	25	3.92	3.94	3.92
	26	0.82	0.84	0.84
	27	0.00	0.00	0.00
	28	3.88	3.88	3.90
	29	3.92	3.91	3.92
	30	0.82	0.00	0.82
	31	3.92	0.82	3.92
	32	3.92	3.94	3.92
	33	3.92	3.92	3.92
	34	2.58	3.92	3.92
	35	0.06	12.58	4.34
	36	0.64	0.64	4.32
	37	0.64	0.64	4.34
	38	0.00	0.64	4.28
	39	0.00	0.00	0.00
	40	5.18	0.00	5.10
	41	0.94	5.20	0.94
	42	4.75	0.94	4.74
	43	4.86	4.81	4.81
	44	1.98	1.97	1.97

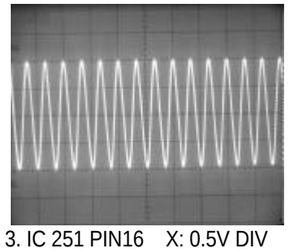
HIFI&SW		MODE		
LOC.	PIN	EE	PLAY	REC.
IC601	1	5.13	5.14	5.13
	2	5.16	5.16	5.15
	3	5.16	5.16	5.13
	4	5.15	5.15	5.14
	5	5.16	5.14	5.16
	6	0	0.01	0.01
	7	0.01	0.01	0.01
	8	0.01	0.01	0.01
	9	12.19	0.01	12.26
	10	12.19	12.23	12.26
	11	0.01	0.01	0.01
	12	5.16	5.15	5.15
	13	5.14	5.14	5.13
	14	5.16	5.17	5.13
	15	5.14	5.15	5.13
	16	12.32	12.35	12.38
LOC.	PIN	EE	PLAY	REC.
Q601	E	12.5	12.58	12.59
	B	12.5	0.06	12.57
	C	0.04	12.57	0.05
Q602	E	0.01	0.01	0.02
	B	0	5.16	0
	C	12.5	0.06	12.58
Q603	E	0.01	0.01	0.02
	B	0	0	0
	C	0.04	12.38	0.05
Q670	E	2.28	2.85	2.28
	B	1.59	2.16	1.59
	C	0.01	0.01	0.01
Q671	E	1.91	1.74	1.91
	B	1.22	1.04	1.22
	C	0.01	0.01	0.01



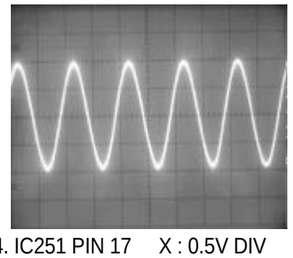
1 IC251 PIN2 X : 0.1V DIV
IF A.IN LEFT Y : 0.5mS DIV



2. IC251 PIN3 X: 0.5V DIV
IF A.IN RIGHT Y : 0.5mS DIV

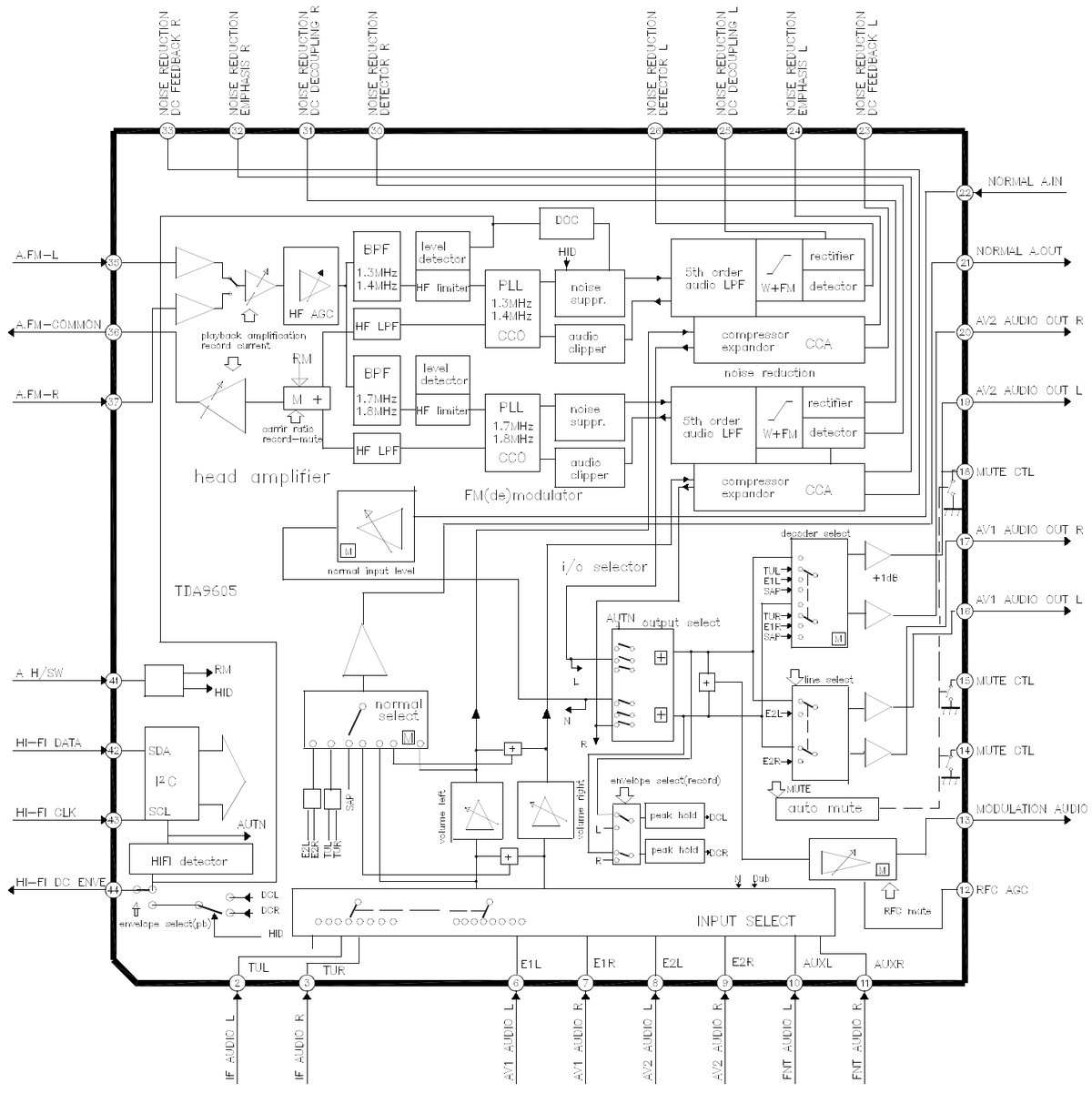


3. IC 251 PIN16 X: 0.5V DIV
A.OUT LEFT Y : 0.5mS DIV

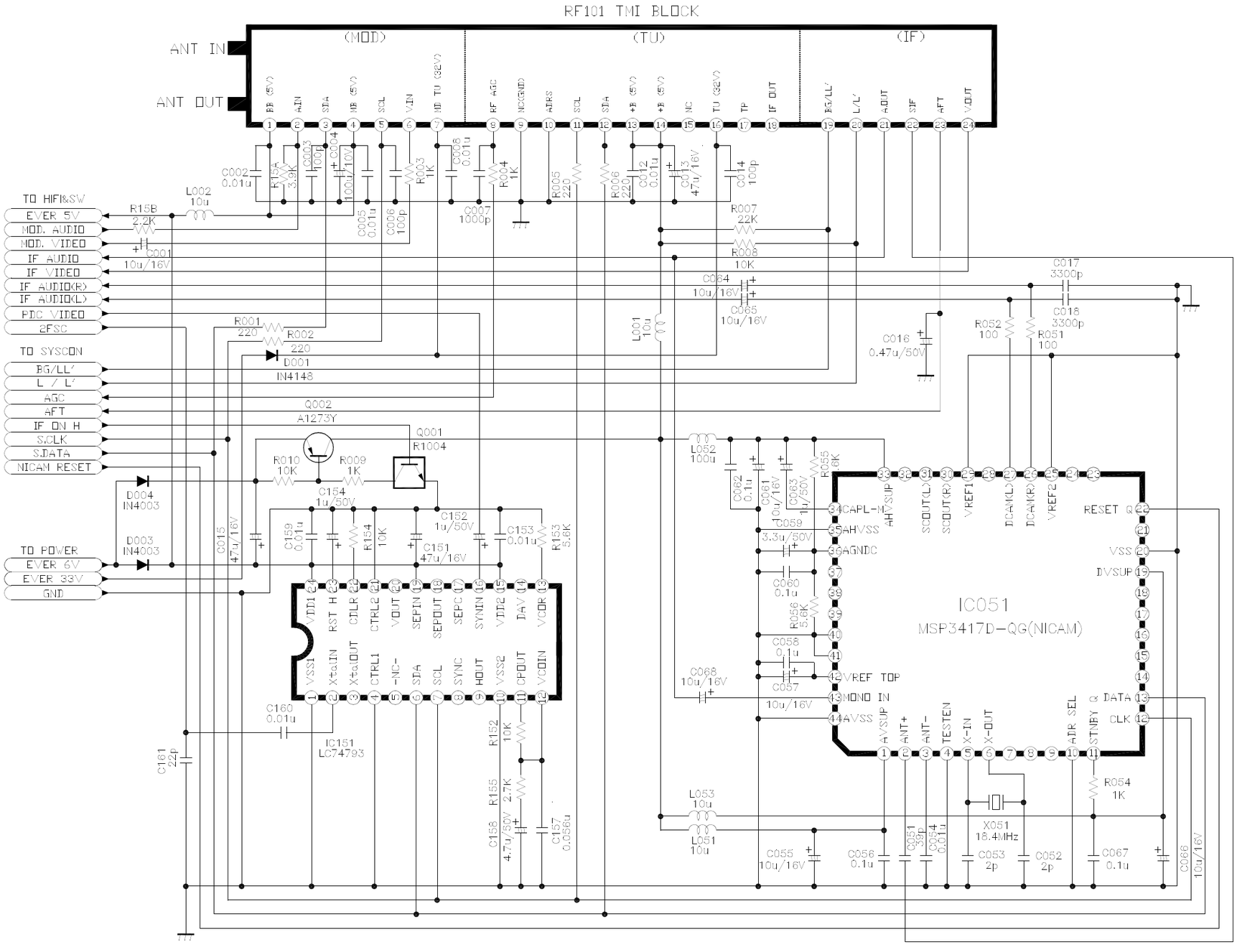


4. IC251 PIN 17 X : 0.5V DIV
A.OUT RIGHT Y: 0.5mS div

HIFFI BLOCK DIAGRAM



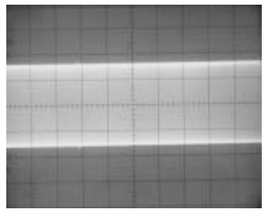
9. PIF CIRCUIT DIAGRAM



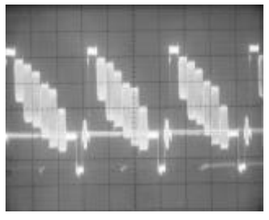
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC051	1	5.02	0.00	5.02
	2	1.52	0.07	1.52
	3	1.52	0.00	1.52
	4	0.00	0.00	0.02
	5	2.44	0.07	2.44
	6	2.27	0.07	2.32
	7	0.06	0.07	0.3
	8	0.00	0.07	0.02
	9	0.00	0.07	0.02
	10	0.00	0.00	0.02
	11	5.07	0.00	5.07
	12	4.83	4.83	4.83
	13	4.84	4.76	4.77
	14	2.52	0.05	2.54
	15	2.54	0.07	2.56
	16	2.51	0.08	2.52
	17	0.10	0.08	0.32
	18	0.08	0.08	0.30
	19	5.08	0.00	5.08
	20	0.00	0.00	0.02
	21	0.02	0.00	0.36
	22	5.22	0.00	5.22
	23	0.00	0.00	0.00
	24	0.00	0.00	0.00
	25	0.00	0.00	0.02
	26	1.40	0.00	1.42
	27	1.40	0.00	1.42
	28	0.00	0.00	0.00
	29	0.00	0.00	0.02
	30	2.56	0.04	2.58
	31	0.00	0.04	2.56
	32	5.08	0.00	0.00
	33	2.53	0.00	5.08
	34	0.00	0.00	2.53
	35	2.56	0.00	0.00
	36	0.00	0.00	2.56
	37	0.00	0.00	0.00
	38	0.00	0.00	0.00
	39	0.00	0.00	0.00
	40	0.00	0.00	0.00
	41	0.00	0.00	0.00
	42	2.60	0.00	2.26
	43	2.56	0.04	2.56
	44	0.00	0.00	0.00

PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
IC151	1	0.02	0.01	0.02
	2	2.66	2.68	2.64
	3	2.66	2.70	2.66
	4	0.02	0.00	0.02
	5	0.00	0.00	0.00
	6	4.83	4.75	4.71
	7	4.87	4.83	4.76
	8	5.22	5.26	5.20
	9	4.84	4.86	4.80
	10	0.02	0.00	0.02
	11	2.30	2.31	2.28
	12	2.30	2.32	2.28
	13	1.32	1.00	0.98
	14	0.00	0.00	0.01
	15	5.24	5.26	5.20
	16	3.16	3.12	3.07
	17	2.60	2.62	2.57
	18	4.80	4.84	4.77
	19	5.24	5.26	5.20
	20	5.18	5.21	5.14
	21	0.02	0.00	0.02
	22	3.80	3.82	3.77
	23	5.20	5.24	5.18
	24	5.24	5.26	5.20

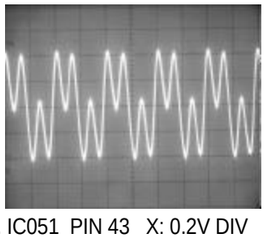
PIF		MODE		
LOC.	PIN	EE	PLAY	REC.
Q001	E	0.002	0.002	0.002
	B	0.01	0.01	0.012
	C	5.86	5.86	5.86
Q002	E	5.86	5.86	5.86
	B	5.82	5.86	5.8
	C	0.012	0.012	0.018



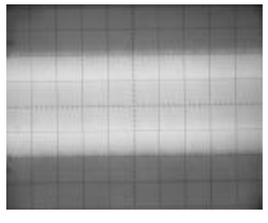
1 IC 151 PIN 2 X : 0.5V DIV
2 FSC IN Y : 2uS DIV



2. IC151 PIN16 X: 0.5V DIV
PDC V.IN Y : 20uS DIV



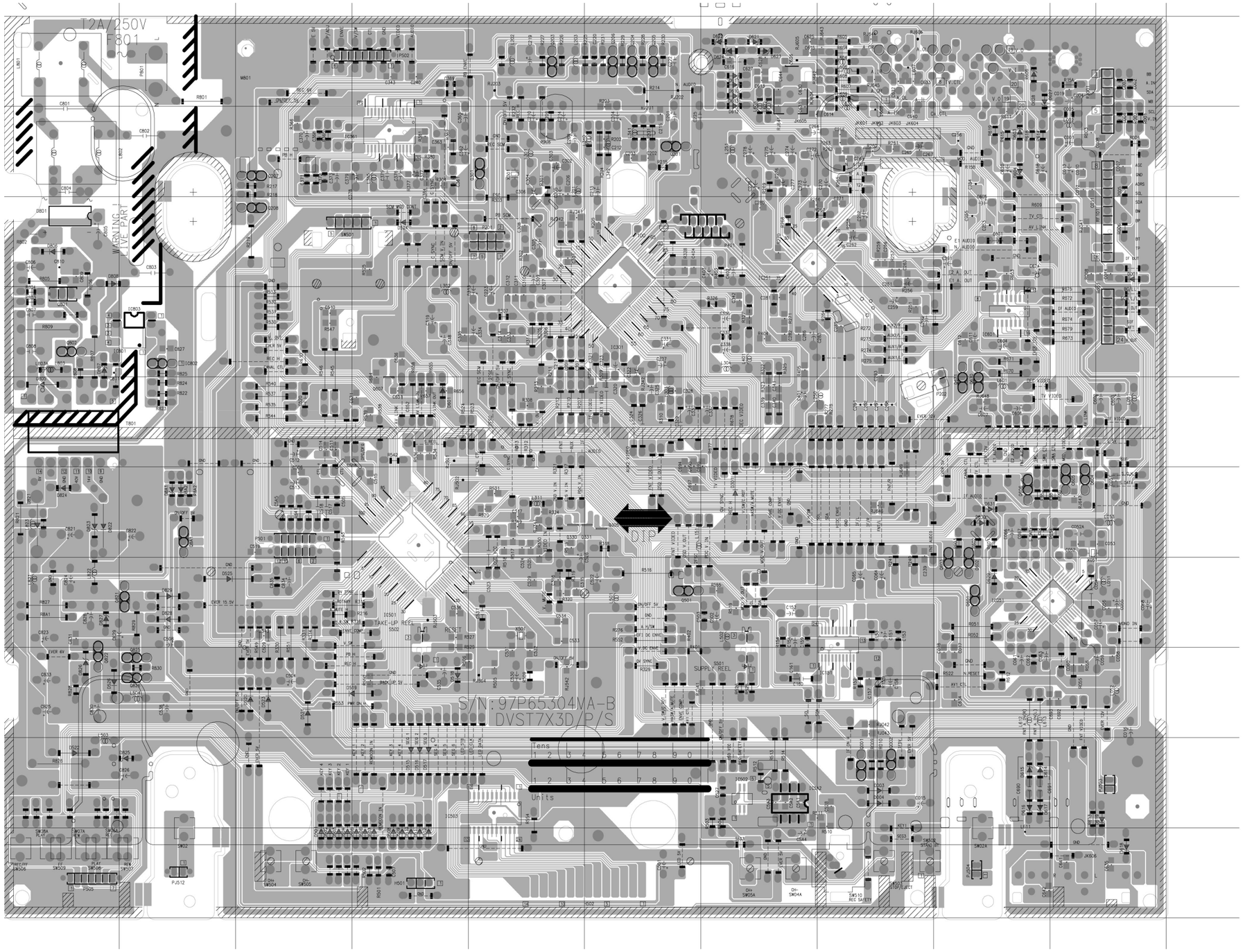
3. IC051 PIN 43 X: 0.2V DIV
MONO IN Y : 0.5mS DIV



4. IC051 PIN 2 X :0.1V DIV
SIF IN Y : 0.5mS DIV

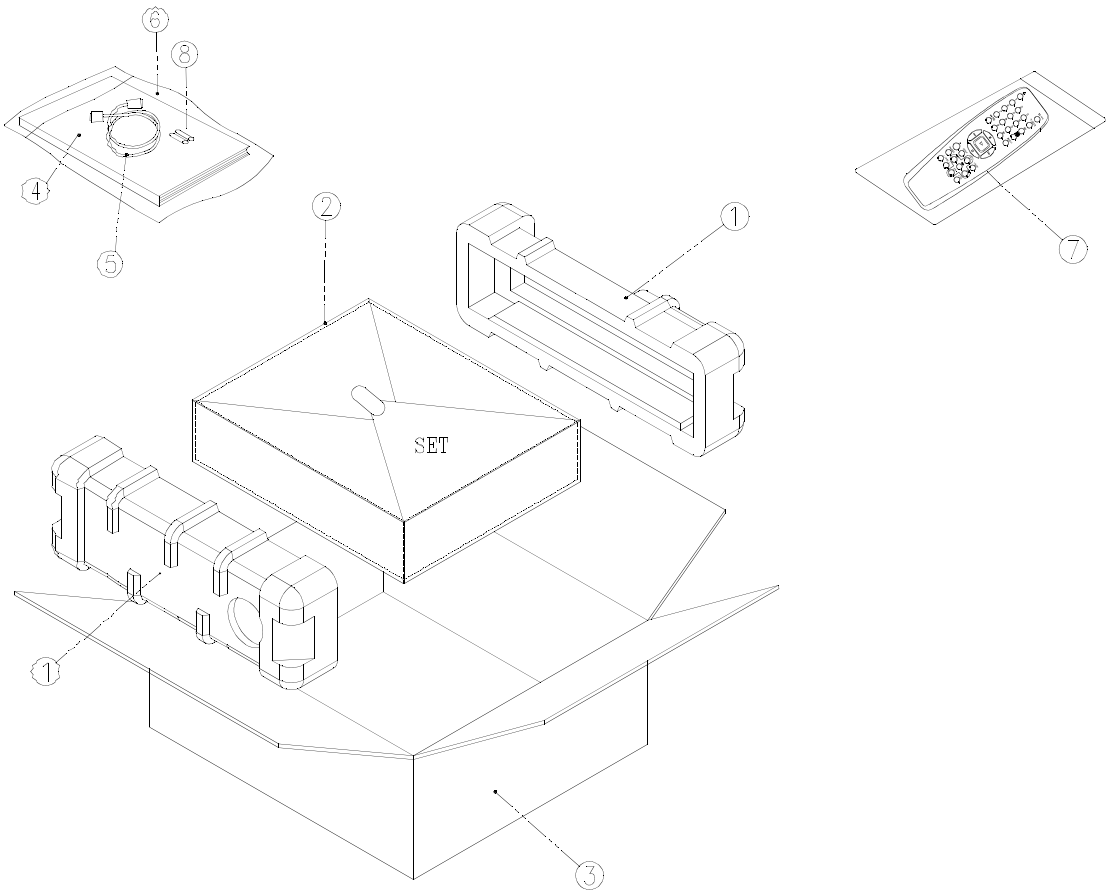
COMPONENTS LOCATION GUIDE ON PCB BOTTOM VIEW

PCB MAIN



DISASSEMBLY

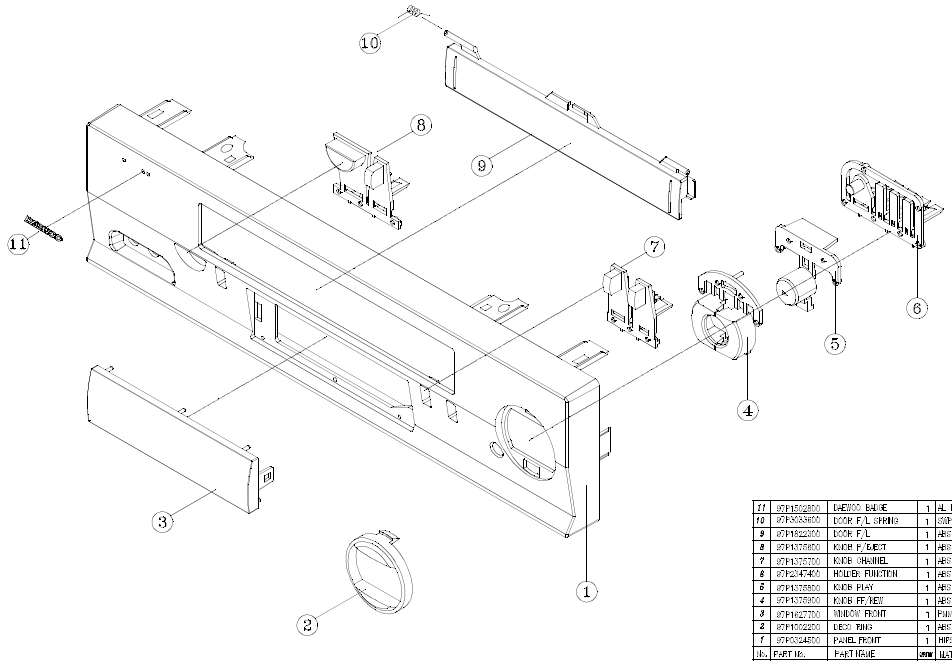
1. PACKING ASS'Y



7	BATTERY	486A716202	2	AAA 1.5 V (SUPERGARD)	
7	REMOCON HANDSET AS	97P1R2TAA1	1	VR-F2TA	
6	COVER ACCESSORY	97P0424100	1	LD-PE T0.1	
5	CABLE RF	97P881RP10	1	PAL 1.0M	
4	MANUAL OWNERS	97P9560000	1	ALL MODEL	
3	BOX CARTON	97P5051900	1	(SC260+K200)*K200*EX225	
2	POLY BAG FOR SET	97P4808500	1	P.E FOAM(800*800*T0.5)	
NO.	PART NAME	PART NO.	QUANTITY	MATERIAL	REMARK
1	PAD FRONT/BACK	97P4930000	1	EPS	

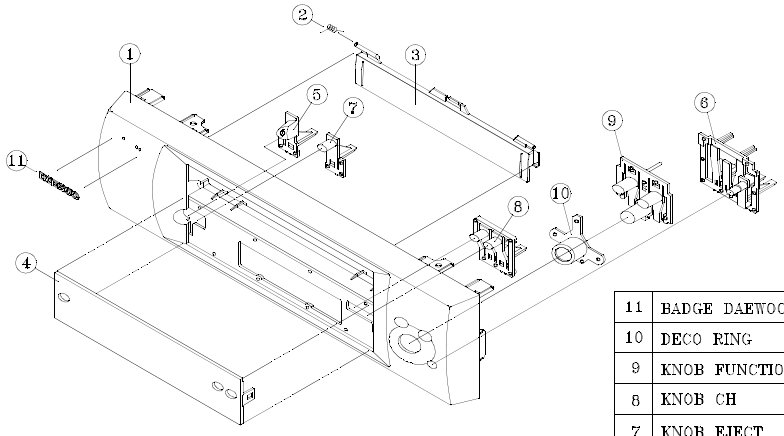
2. FRONT PANEL ASSEMBLY

DVST7J3 SERIES



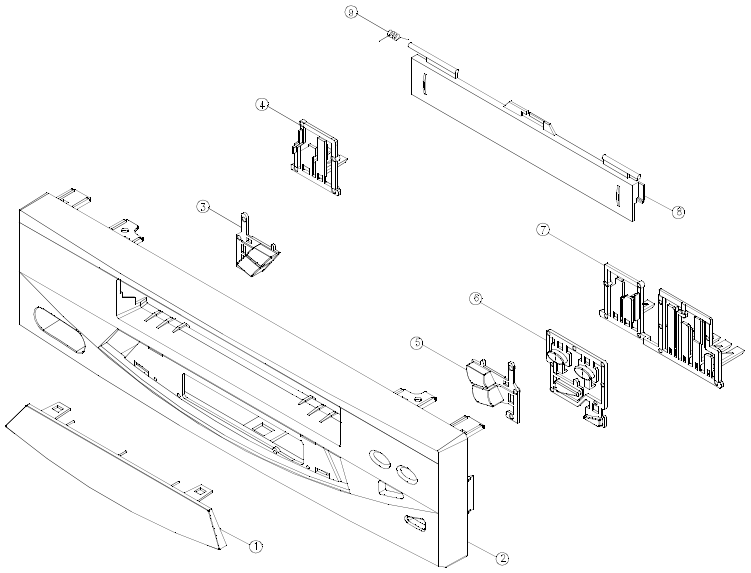
NO.	PART No.	PART NAME	QTY	MATERIAL	REMARK
11	97P1505500	DAEWOO BADGE	1	AL DIA CUTTING	
10	97P3033600	DOOR F/L SPRING	1	SWPB 5088N	
9	97P1622300	DOOR F/L	1	ABS	
8	97P1375000	KNOB FUNCTION	1	ABS	
7	97P1374900	KNOB CHANNEL	1	ABS	
6	97P1376000	KNOB EJECT	1	ABS	
5	97P2347400	HOLDER FUNCTION	1	ABS	
4	97P1374800	KNOB PLAY	1	ABS	
3	97P1627500	KNOB REWIND	1	ABS	
2	97P1622300	WINDOW FRONT	1	PMMA	
1	97P0324100	DECO RING	1	ABS	
NO.	PART No.	PART NAME	QTY	MATERIAL	REMARK

DVST7C3 SERIES



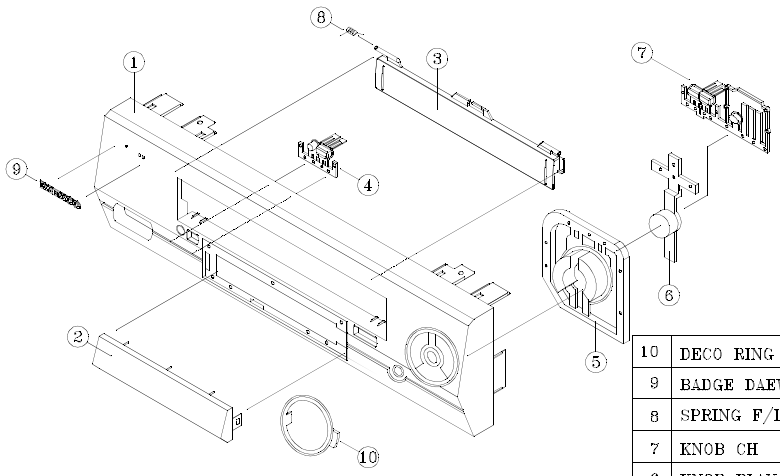
NO.	PART NAME	PART No.	QTY	MATERIAL	REMARK
11	BADGE DAEWOO	97P1505500	1	AL	
10	DECO RING	97P1002000	1	ABS	
9	KNOB FUNCTION	97P1375000	1	ABS	
8	KNOB CH	97P1374900	1	ABS	
7	KNOB EJECT	97P1376000	1	ABS	
6	HOLDER FUNCTION	97P2347300	1	ABS	
5	KNOB POWER	97P1374800	1	ABS	
4	WINDOW FRONT	97P1627500	1	ABS	
3	DOOR F/L	97P1622300	1	ABS	
NO.	PART NAME	PART No.	QTY	MATERIAL	REMARK
2	SPRING F/L DOOR	97P3033600	1	SWPB 5088N	
NO.	PART NAME	PART No.	QTY	MATERIAL	REMARK
1	PANEL FRONT	97P0324100	1	HI-PS(HB)	

DVST7D3 SERIES



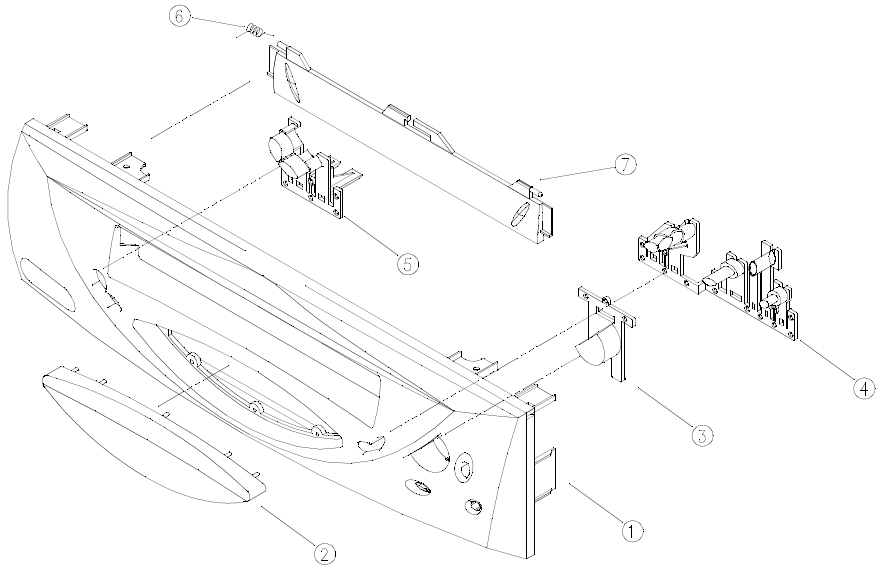
9	97P3033600	SPRING DOOR F/L	1	AL	
8	97P1822300	DOOR F/L	1	SWPB 5088N	
7	97P1374000	KNOB HOLDER R	1	ABS	
6	97P1373600	KNOB FUNCTION	1	ABS	
5	97P1373800	KNOB CHANNEL	1	ABS	
4	97P1373900	KNOB HOLDER L	1	ABS	
3	97P1373700	KNOB POWER	1	ABS	
2	97P0323810	PANEL FRONT	1	HIPS(VD)	
1	97P1627200	WINDOW FRONT	1	PMMA	
No.	PART No.	PART NAME	QUANTITY	MATERIAL	REMARK

DVST7L3 SERIES



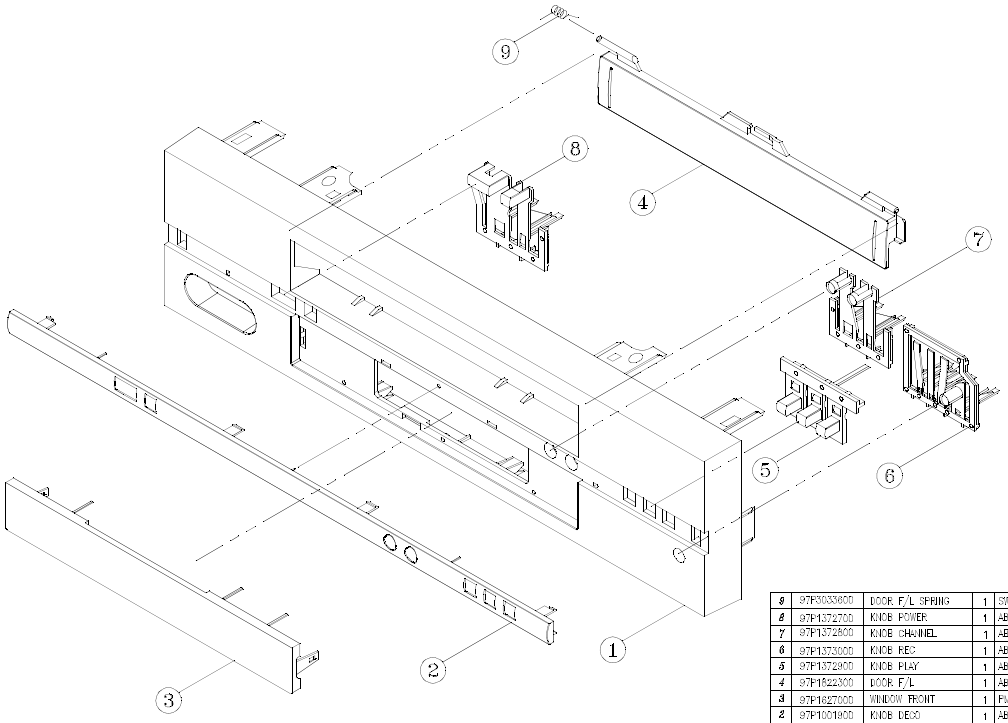
10	DECO RING	97P1002300	1	ABS	
9	BADGE DAEWOO	97P1502600	1	AL	
8	SPRING F/L DOOR	97P3033600	1	SWPB	
7	KNOB CH	97P1376400	1	ABS	
6	KNOB PLAY	97P1376300	1	ABS	
5	KNOB FUNCTION	97P1376200	1	ABS	
4	KNOB P/EJECT	97P1376100	1	ABS	
3	DOOR F/L	97P1822300	1	ABS	
NO. 2	PART NAME WINDOW FRONT	PART NO. 97P1627600	QUANTITY 1	MATERIAL PMMA	REMARK
NO. 1	PART NAME PANEL FRONT	PART NO. 97P0324300	QUANTITY 1	MATERIAL HI-PS(HB)	REMARK

DVST7B3 SERIES



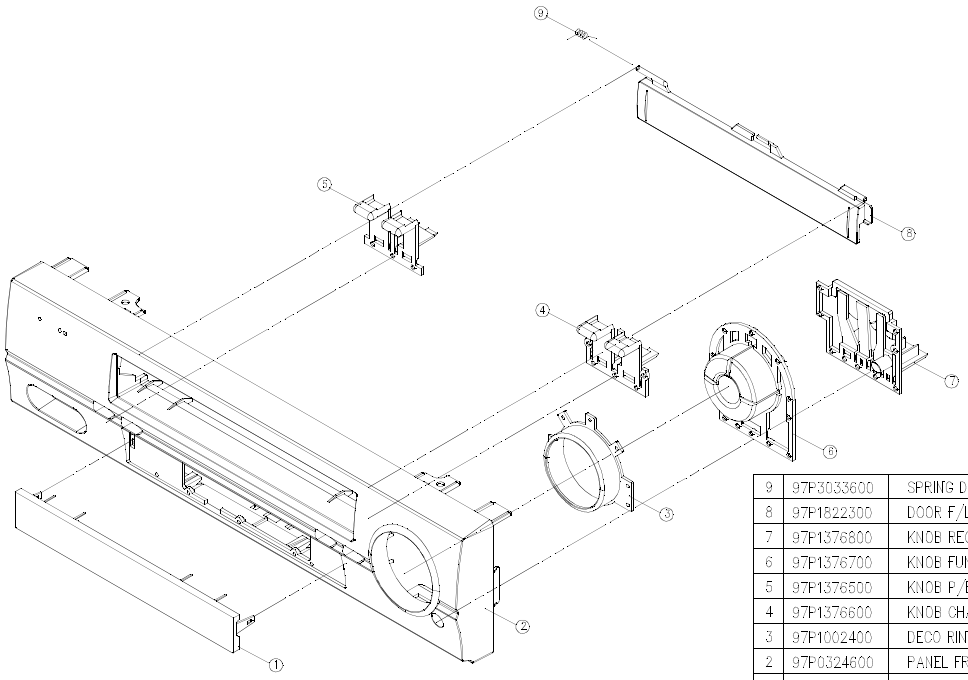
7	97P1821600	DOOR F/L	1	ABS	
6	97P3033600	DOOR F/L SPRING	1	SWPB SO88N	
5	97P1374100	KNOB P/EJECT	1	ABS	
4	97P1374200	KNOB FUNCTION	1	ABS	
3	97P1374300	KNOB PLAY	1	ABS	
2	97P1827300	WINDOW FRONT	1	PMMA	
1	97P0323600	PANEL FRONT	1	HIPS(HB)	
No.	PART No.	PART NAME	QUTY	MATERIAL	REMARK

DVST7E3 SERIES



9	97P3033600	DOOR F/L SPRING	1	SWPB SO88N	
8	97P1372700	KNOB POWER	1	ABS	
7	97P1372800	KNOB CHANNEL	1	ABS	
6	97P1373000	KNOB REC	1	ABS	
5	97P1372900	KNOB PLAY	1	ABS	
4	97P1822300	DOOR F/L	1	ABS	
3	97P1827000	WINDOW FRONT	1	PMMA	
2	97P1001900	KNOB DECK	1	ABS	
1	97P0323600	PANEL FRONT	1	HIPS(V0)	
No.	PART No.	PART NAME	QUTY	MATERIAL	REMARK

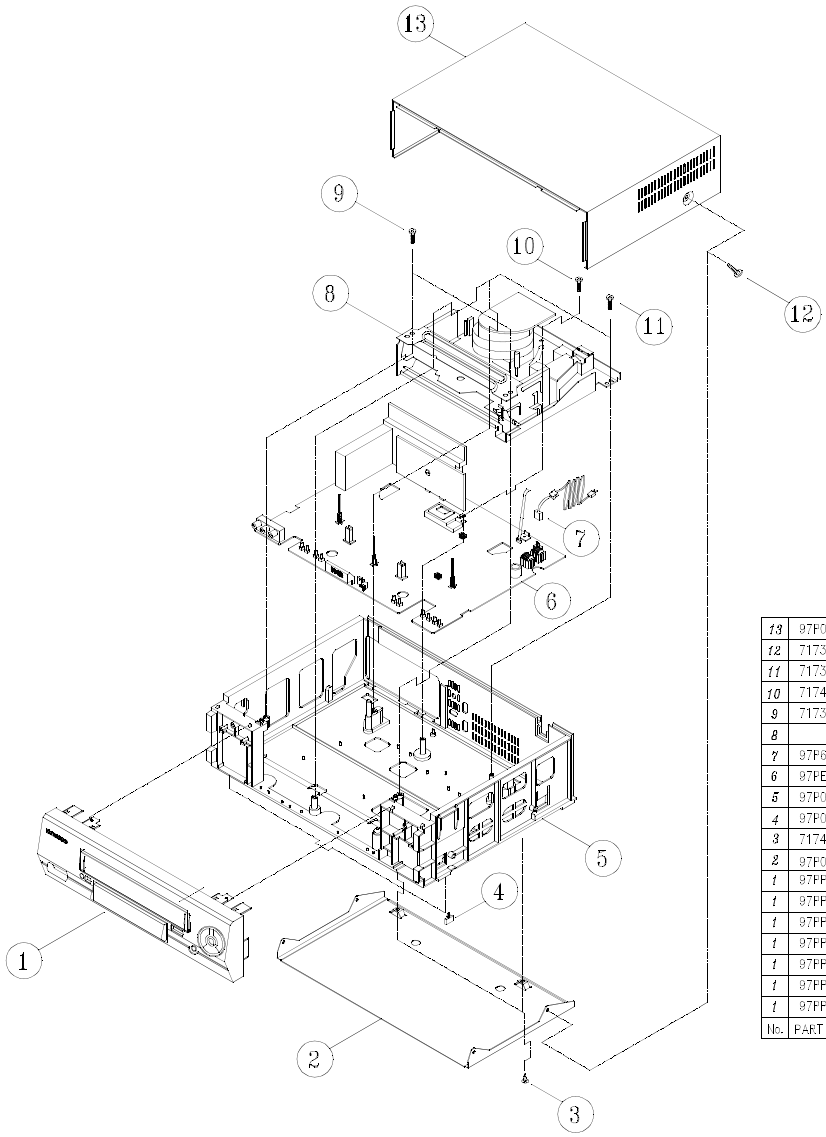
DVST7M3 SERIES



9	97P3033600	SPRING DOOR F/L	1	AL	
8	97P1822300	DOOR F/L	1	SWPB 508IN	
7	97P1376800	KNOB REC	1	ABS	
6	97P1376700	KNOB FUNCTION	1	ABS	
5	97P1376500	KNOB P/EJECT	1	ABS	
4	97P1376600	KNOB CHANNEL	1	ABS	
3	97P1002400	DECO RING	1	ABS	
2	97P0324600	PANEL FRONT	1	HIPS(HB)	
1	97P1627900	WINDOW FRONT	1	PMMA	
No.	PART No.	PART NAME	QTY	MATERIAL	REMARK

3. INSTRUMENT DISASSEMBLY

3-1. SET TOTAL



13	97P0474000	COVER TOP	1	PCM T0.5	
12	7173401212	SCREW TAPPTITE	2	TT2 BIN 4X12 MFZN BK	COVER TOP FIX
11	7173401211	SCREW TAPPTITE	3	TT2 BIN 4X12 MFZN	DECK FIX
10	7174301011	SCREW TAPPTITE	1	TT2 RND 3X10 MFZN	P/AMP FIX
9	7173401211	SCREW TAPPTITE	2	TT2 BIN 4X12 MFZN	P/L FIX
8		DECK TOTAL AS	1		
7	97P6923101	CORD POWER AS	1	KKP-419C 0.75MM 2100MM	EUROP
6	97PE------	PCB MAIN MANUAL AS	1		
5	97P0611300	CHASSIS MAIN	1	HIPS(HB)	
4	97P0800602	LEG	2	PLASTOMER	
3	7174301011	SCREW TAPPTITE	2	TT2 RND 3X10 MFZN	@BOTTOM FIX
2	97P0478600	COVER BOTTOM	1	SECC T0.4	
1	97PP323900	PANEL FRONT AS	1	DV-T8B1D	
1	97PP323600	PANEL FRONT AS	1	DV-T8E1D	
1	97PP324600	PANEL FRONT AS	1	DV-T8M1D	
1	97PP324500	PANEL FRONT AS	1	DV-T7J1D	
1	97PP323800	PANEL FRONT AS	1	DV-T8D4D	
1	97PP324100	PANEL FRONT AS	1	DV-T4C	
1	97PP324300	PANEL FRONT AS	1	DVST7L1D	
No.	PART No.	PART NAME	QTY	MATERIAL	REMARK

ELECTRICAL PARTS LIST

✔ **Caution**: In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service information Center(http://svc.dwe.co.kr)

"Ⓡ "is a recommendable part for essential stock.

1. PCB MAIN AS

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
01	PVACPSS119	ACCESSORY AS	DVST7L1S-AQ	
DP01	97P95600S0	MANUAL OWNERS	SECAM-L MODEL	
DP02	97P881RP10	CABLE RF	PAL 1.0M	
DP03	97P0424100	COVER ACCESSORY	LD-PE T0.1	
02	PVPKCPD929	PACKING AS	DV-K241DZ-RG/D	
CP01	97P4930000	PAD FRONT/BACK	EPS	
CP02	97P4808500	POLY BAG FOR SET	800X800XT0.5 PE-FOAM	
CP03	97P5051920	BOX CARTON	409X352X147	
CP04	47P4502201	LABEL SERIAL A	ART PAPER 2EA ALL MODEL	
CP05	6520010020	STAPPLE	M20	
03	PVMCASS147	CHASSIS MAIN AS	DVST7L3S-AQ	
A001	97P0611300	CHASSIS MAIN	HIPS	
A0011	97P0800602	LEG	PLASTOMER	
A002	97P93400S0	LABEL SPEC	PE FILM (SECAM-L MODEL)	
A040	97P0478400	COVER TOP	SECC T0.5 PCM	
A041	7173401212	SCREW TAPPTITE	TT2 BIN 4X12 BK	
A060	97P0478600	COVER BOTTOM	SECC T0.4	
A061	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN	
D008	97P882T912	CABLE SCART	SCART-SCART 9P 1.2M	
D100	97P1R2TAA2	REMOCON HANDSET AS	VR-F2TA	
M01	97PP324300	PANEL FRONT AS	T8L1DY	
M021	7173401211	SCREW TAPPTITE	TT2 BIN 4X12 MFZN	
M022	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFZN	
M1000	PVDKARSB60	VCR DECK AS(T50)	DRS-B600 NON	
A0100	97SA332200	MAIN BASE AS	T4.5-MECHA	
A011	97P93B2102	LABEL CD(DECK)	PAPER(13X56) ALL MODEL	
A0200	97SA316500	S SLANT POLE AS	T-MECHA	
A0300	97SA316600	T SLANT POLE AS	T-MECHA	
A0400	97S8103000	MOTOR CAPSTAN	DMVCMC-09D	
A0401	97S3102000	SCREW TAPPTITE	TT2 BIN-P 2.6X7 MFZN	
A0600	97SA320500	AC HEAD AS	T-MECHA	
B0610	97SA326800	HEAD A/C	HVMXA1101A(ALPS)	
A0601	7004300511	SCREW MACHINE	RND 3X5 MFZN	
A1000	97SA316800	L LOADING AS	T-MECHA	
A1100	97SA316900	R LOADING AS	T-MECHA	
A1200	97S2709510	RACK LOADING	SECC T1.2	
A1201	7008301911	SCREW MACHINE	WAS M3*19 MFZN	
A1400	97S0904310	PLATE CONNECT-H	SECC T1.0	
A1500	97SA319410	REEL BRKT TOTAL AS	T2-MECHA	
A1501	7274300511	SCREW TAPPTITE	TT3 RND 3X5 MFZN	
A1700	97S5500400	BELT REEL	CR68	
A1800	97S2623200	LEVER RELAY	SECC T1.2	
A1900	97S2709600	RACK FL	PBT(DY4410GF) NATURAL	
A2000	97S2708200	GEAR CAM	DERLIN 100	
A2100	97SA317150	PINCH LEVER TOT AS	T-MECHA	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
B1910	97SA481050	PINCH ROLLER AS	D15(DAEJIN D2.6*D7*T4.5)	
A2200	97SA318050	LC BRKT AS	T5-MECHA	
B2040	97P885X146	CONN AS	A/C HEAD(6P) SHIELD	
A2201	7274300611	SCREW TAPPTITE	TT3 RND 3X6 MFZN	
A2400	97SA317310	IDLER PLATE TOT AS	T2-MECHA	
A2401	97S3108200	POLYWASHER	D2.6XD6.0XT0.5	
A2600	97S2909400	TABLE REEL	POM(F20-03) BLACK	
A2700	97SA317200	TENSION LVR TOT AS	T-MECHA	
A2800	97SA317400	S BRAKE AS	T-MECHA	
A2900	97SA317510	T BRAKE AS	T2-MECHA	
A3000	97S8023700	HEAD FE	HVFHP0042A	
A3001	7274300811	SCREW TAPPTITE	TT3 RND 3X8 MFZN	
AD001	97PA285801	DRUM PRICE AS	CYS-T610C	
AD002	7004300511	SCREW MACHINE	RND 3X5 MFZN	
AD003	97P88F0B23	CABLE FFC	1.25K 11P 235MM	
AF001	97SA261040	F/L AS	T5-MECHA	
AF002	7274300511	SCREW TAPPTITE	TT3 RND 3X5 MFZN	
AN002	2291131304	GREASE	DELUXE 5221G(NAM-YOUNG)	
PW01	97P69DB900	CORD POWER AS	EU LP-21 YFH800 1.7M	
Z001	PVMPMSS147	PCB MAIN MANUAL AS	DVST7L3S-AQ	
AM01	2193100801	SOLDER WIRE	SN:PB=63:37 3PI(NO FLUX)	
AM02	2193011100	SOLDER WIRE	60 SNA 1.2D	
AM03	2291050305	FLUX LIQUID	RF-800KN	Ⓡ
AM04	2291050306	FLUX THINNER	RF-800ADD	
AM05	2291140501	WAX COVER		
AM06	97P93B2101	LABEL CD(PCB)	PAPER(13X48) ALL MODEL	Ⓡ
B001	97P0720400	BOARD ANT	HI-PS(HB)	Ⓡ
B001A	7175300812	SCREW TAPPTITE	TT2 FLT 3X8 MFZN BK	Ⓡ
C801	CL2EE3104M	C LINE ACROSS	AC 275V 0.1MF M PCX2 335M	Ⓡ
C802	CH1TFB101K	C CERA AC	4.0KV 100PF K AD AC250V	Ⓡ
C803	CH1TFE222M	C CERA AC	4.0KV 2200PF M AD AC250V	
C804	CH1CEE472M	C CERA AC	2.5KV 4700PF M DE AC250V	
C805	CEXF2G470V	C ELECTRO	400V RSS 47MF 16X25	
C821	CEXK1E681L	C ELECTRO	25V 680UF KXL	
C822	CEXK1E681L	C ELECTRO	25V 680UF KXL	
D821	DSB360----	DIODE SCHOTTKY	SB360	
D822	DRGP20D---	DIODE	RGP20D	
H501	10RC356VF4	IC UNIT R/RECE1VER	ORC0356VF4(38KHZ)	
H502	DLDVST7X3D	LED DISPLAY	DVST7X3D	
IC803	1K1010HE01	IC PHOTO COUPLER	K1010HE01	
JK601	97P6313300	JACK DOUBLE SCART	DSAM-9621	
JK605	97P6314900	JACK PIN	DPAM-9825	
JK606	97P6316000	JACK PIN	DPAE-9930	
L801	5PLFSF212A	FILTER LINE	SF-2120A	Ⓡ
L802	5PLFSF212A	FILTER LINE	SF-2120A	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
M401	97P0478200	CASE SHI PREAMP	ET T0.4	
M801	97P0974300	PLATE EARTH-P	ET T=0.4	
P201	97P62Y1318	CONN WAFER	DVW250 PLUG 2.5MM 8P	®
P202	97P62T14B2	CONN HOUSING	TMC-EX-B1 RECEP 2.0MM 2P	®
P401	97P62G06DA	CONN HOUSING	GF120 FPC 1.25MM 10P	
P501	97P62T152C	CONN B/B	TMC-JP PLUG 2.0MM 12P	
P502	97P6269200	CONN WAFER	00-8283-0812-00000	
P801	97P62Y02X2	CONN WAFER	YFW800 STR 10MM 2P	®
Q801	TKSC5027FR	TR	KSC5027FR	®
R802	RW02B229J-	R WIRE WOUND	2W 2.2 OHM J	
R809	RS02F104JS	R M-OXIDE FILM	2W 100K OHM J SMALL	
R826	RS01F821J-	R M-OXIDE FILM	1W 820 OHM J	
RF101	97P7615400	TUNER 3 IN 1	SSTBI-SLQ1	
S501	97P0S02500	SENSOR REEL	RPI-303N	
S502	97P0S02500	SENSOR REEL	RPI-303N	
SW501	5S10104100	SW MODE	MMS00402ZMB0	
SW510	5SD0101100	SW DETE	MXS00921MPC0	
T801	57M8282301	TRANS SMPS	TSW-T7X3D	
X051	5XJ18R4LAE	CRYSTAL QUARTZ	HC-49/S 18.43200MHZ 30PP	
X501	5XJ17R7LAD	CRYSTAL QUARTZ	HC-49/S 17.73447MHZ 25PPM	
Z0011	PVMPJ1S147	PCB MAIN CHIP AS	DVST7L3S-AQ	
C007	HCQK101JBA	C CHIP CERA	50V CH 100PF J 1608	
C012	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C014	HCLK101JCA	C CHIP CERA	50V SL 100PF J 2012	
C017	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
C018	HCBK332KBA	C CHIP CERA	50V X7R 3300PF K 1608	
C051	HCQK390JBA	C CHIP CERA	50V CH 39PF J 1608	
C052	HCQK209CBA	C CHIP CERA	50V CH 2PF C 1608	
C053	HCQK209CBA	C CHIP CERA	50V CH 2PF C 1608	
C056	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C058	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C060	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C157	HCBK563KCA	C CHIP CERA	50V X7R 0.056MF K 2012	
C161	HCQK220JBA	C CHIP CERA	50V CH 22PF J 1608	
C202	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	
C203	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	
C206	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C212	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C239	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C251	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C252	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C253	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C254	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C255	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C256	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C257	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C258	HCFH474ZCA	C CHIP CERA	25V Y5V 0.47MF Z 2012	
C263	HCBK392KBA	C CHIP CERA	50V X7R 3900PF K 1608	
C266	HCBK392KBA	C CHIP CERA	50V X7R 3900PF K 1608	
C267	HCBK392KBA	C CHIP CERA	50V X7R 3900PF K 1608	
C268	HCBK392KBA	C CHIP CERA	50V X7R 3900PF K 1608	
C269	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
C271	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
C277	HCBK682KBA	C CHIP CERA	50V X7R 6800PF K 1608	
C281	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C282	HCBK122KBA	C CHIP CERA	50V X7R 1200PF K 1608	
C285	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C286	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C293	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C301	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C303	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C306	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C307	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C308	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C310	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	
C311	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C312	HCBK822KBA	C CHIP CERA	50V X7R 8200PF K 1608	
C314	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C315	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C316	HCQK561JBA	C CHIP CERA	50V CH 560PF J 1608	
C317	HCQK131JBA	C CHIP CERA	50V CH 130PF J 1608	
C328	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C333	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C335	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C339	HCQK131JBA	C CHIP CERA	50V CH 130PF J 1608	
C340	HCQK221JBA	C CHIP CERA	50V CH 220PF J 1608	
C341	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C342	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C363	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C379	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C384	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C404	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C506	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C510	HCBK222KBA	C CHIP CERA	50V X7R 2200PF K 1608	
C511	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C514	HCBK102KBA	C CHIP CERA	50V X7R 1000PF K 1608	
C515	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C516	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C519	HCBK272KBA	C CHIP CERA	50V X7R 2700PF K 1608	
C521	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C524	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C525	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
C528	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C529	HCFH104ZBA	C CHIP CERA	25V Y5V 0.1MF Z 1608	
C531	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C532	HCQK150JBA	C CHIP CERA	50V CH 15PF J 1608	
C536	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C612	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C613	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C614	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C615	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C616	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C625	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	
C626	HCQK331JBA	C CHIP CERA	50V CH 330PF J 1608	

ELECTRICAL PARTS LIST

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
C627	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C628	HCFH223ZBA	C CHIP CERA	25V Y5V 0.022MF Z 1608	
C630	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C631	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
C632	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C633	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C634	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C635	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
C640	HCQK201JBA	C CHIP CERA	50V CH 200PF J 1608	
C692	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	
C693	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	®
C694	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	®
C695	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	®
C696	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	®
C697	HCQK330JBA	C CHIP CERA	50V CH 33PF J 1608	®
C809	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	®
C810	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	®
C811	HCBK473KCA	C CHIP CERA	50V X7R 0.047MF K 2012	®
C827	HCFH683ZBA	C CHIP CERA	25V Y5V 0.068MF Z 1608	®
C831	HCBK103KBA	C CHIP CERA	50V X7R 0.01MF K 1608	
D801	DDBS105G-C	DIODE BRIDGE	DBS105G CHIP	
IC051	1MSP3417DG	IC NICAM	MSP3417D-QG3	
IC151	1LC74793--	IC VPS	LC74793JM	®
IC251	1TDA9605H-	IC HI-FI	TDA9605H	®
IC301	1LA71750M-	IC A/V 1 CHIP	LA71750M	
IC361	1LA70100M-	IC SECAM-L	LA70100M	
IC501	168KT85ATS	IC MICOM	M37760M8H-1E6GP	
IC502	14ATM24D08	IC EPROM	ATM24D08	
IC503	1PT6955---	IC DRIVER	PT6955 24TP(LED DR)	
L607	HLX1210001	BEAD CHIP	TB201209Z121	
L608	HLX1210001	BEAD CHIP	TB201209Z121	
L611	HLX1210001	BEAD CHIP	TB201209Z121	
Q305	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
Q330	T2SA1037KB	TR CHIP	2SA1037AKT146-R	
Q331	T2SC2412KB	TR CHIP	2SC2412K-T146-BR	
R056	HRFS562JBA	R CHIP	1/16 5.6K OHM J 1608	
R202	HRFS334JBA	R CHIP	1/16 330K OHM J 1608	
R203	HRFS181JBA	R CHIP	1/16 180 OHM J 1608	
R205	HRFS752JBA	R CHIP	1/16 7.5K OHM J 1608	
R206	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
R211	HRFS512JBA	R CHIP	1/16 5.1K OHM J 1608	
R251	HRFS335JBA	R CHIP	1/16 3.3M OHM J 1608	
R256	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
R257	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
R258	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
R259	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
R260	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
R261	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
R262	HRFS680JBA	R CHIP	1/16 68 OHM J 1608	
R263	HRFS242JBA	R CHIP	1/16 2.4K OHM J 1608	
R266	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	
R270	HRFS333JBA	R CHIP	1/16 33K OHM J 1608	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
R271	HRFS470JBA	R CHIP	1/16 47 OHM J 1608	
R302	HRFS822JBA	R CHIP	1/16 8.2K OHM J 1608	
R304	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	
R308	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
R309	HRFS155JBA	R CHIP	1/16 1.5M OHM J 1608	
R310	HRFS155JBA	R CHIP	1/16 1.5M OHM J 1608	
R320	HRFS471JBA	R CHIP	1/16 470 OHM J 1608	
R323	HRFS682JBA	R CHIP	1/16 6.8K OHM J 1608	
R324	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	
R327	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	
R328	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
R349	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
R350	HRFS331JBA	R CHIP	1/16 330 OHM J 1608	
R366	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R377	HRFS154JBA	R CHIP	1/16 150K OHM J 1608	
R380	HRFS202JBA	R CHIP	1/16 2K OHM J 1608	
R381	HRFS302JBA	R CHIP	1/16 3K OHM J 1608	
R402	HRFS393JBA	R CHIP	1/16 39K OHM J 1608	
R404	HRFS363JBA	R CHIP	1/16 36K OHM J 1608	
R405	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R505	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R506	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
R510	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R511	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R515	HRFS222JBA	R CHIP	1/16 2.2K OHM J 1608	
R517	HRFS102JBA	R CHIP	1/16 1K OHM J 1608	
R518	HRFS182JBA	R CHIP	1/16 1.8K OHM J 1608	
R519	HRFS101JBA	R CHIP	1/16 100 OHM J 1608	
R520	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	
R521	HRFS561JBA	R CHIP	1/16 560 OHM J 1608	
R525	HRFS104JBA	R CHIP	1/16 100K OHM J 1608	
R527	HRFS273JBA	R CHIP	1/16 27K OHM J 1608	
R529	HRFS201JBA	R CHIP	1/16 200 OHM J 1608	
R534	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R536	HRFS103JBA	R CHIP	1/16 10K OHM J 1608	
R539	HRFS431JBA	R CHIP	1/16 430 OHM J 1608	
R547	HRFS332JBA	R CHIP	1/16 3.3K OHM J 1608	
R550	HRFS472JBA	R CHIP	1/16 4.7K OHM J 1608	
R555	HRFS820JBA	R CHIP	1/16 82 OHM J 1608	
R606	HRFS750JBA	R CHIP	1/16W 75 OHM J 1608	
R611	HRFS750JBA	R CHIP	1/16W 75 OHM J 1608	
RJ001	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ041	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ042	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ043	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ201	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ202	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ203	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ241	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ242	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ501	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ502	HRF8000-EA	R CHIP	1/8 0 OHM 3216	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
RJ503	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ504	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ541	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ543	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ604	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ605	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ606	HRF8000-EA	R CHIP	1/8 0 OHM 3216	
RJ644	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ648	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
RJ649	HRFS000-BA	R CHIP	1/16 0 OHM 1608	
Z0012	PVMPJRS147	PCB MAIN RADIAL AS	DVST7L3S-AQ	
C004	CEXF1A101A	C ELECTRO	10V RSM 100MF 6.3X7	
C013	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C015	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C016	CEXF1H228A	C ELECTRO	50V RSM 0.22MF (4X7)	
C055	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C057	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C059	CEXF1H339A	C ELECTRO	50V RSM 3.3MF 4X7	
C061	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C063	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C064	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C065	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C066	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C068	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C151	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C152	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C154	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C158	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C201	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C204	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C205	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C208	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C210	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C213	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
C214	CEXF1C330A	C ELECTRO	16V RSM 33MF (6.3X7) TP	
C219	CEXF1C220A	C ELECTRO	16V RSM 22MF (5X7)	
C222	CMXM2A183J	C MYLAR	100V 0.018MF J (TP)	®
C223	CEXF1H479A	C ELECTRO	50V RSM 4.7MF 4X7	
C225	CMXM2A333J	C MYLAR	100V 0.033MF J (TP)	
C259	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C260	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C261	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C262	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C264	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C265	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C270	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C272	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C273	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C274	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
C275	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C276	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C278	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
C279	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C283	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C291	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C292	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C302	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C304	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C305	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C309	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C313	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C318	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C319	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C320	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C322	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C325	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
C327	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C330	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
C331	CEXE1C100F	C ELECTRO	"RMB 16V 10MF(SRA-BP,NS)"	
C332	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C334	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C336	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C338	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C362	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C365	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C370	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
C373	CEXF1H478A	C ELECTRO	50V RSM 0.47MF 4X7	
C375	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	
C376	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	
C377	CEXF1H229A	C ELECTRO	50V RSM 2.2MF (4X7) TP	
C378	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C401	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C402	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C403	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C501	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C502	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C504	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C508	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
C512	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C513	CEXF1C100A	C ELECTRO	16V RSM 10MF 5X7	
C522	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C526	CEXF1H109A	C ELECTRO	50V RSM 1MF (4X7) TP	
C530	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C535	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C538	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C611	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C618	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C620	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C806	CEXF2C109V	C ELECTRO	160V RSS 1MF (6.3X11) TP	
C807	CBXB3A101K	C CERA SEMI	1KV RR 100PF K	
C808	CMXL2G333K	C MYLAR	400V MEU 0.033MF K	®
C823	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	®
C824	CEXF1E221V	C ELECTRO	25V RSS 220MF (8X11.5) TP	
C825	CEXK1J220L	C ELECTRO	63V 22UF KXL	

ELECTRICAL PARTS LIST

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
C826	CEXF1H100A	C ELECTRO	50V RSM 10MF (5X7) TP	
C828	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C829	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C830	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
C833	CEXF1A471V	C ELECTRO	10V RSS 470MF (8X11.5) TP	
C834	CEXF1C470A	C ELECTRO	16V RSM 47MF (5X7) TP	
F801	5FWPS2022L	FUSE PLASTIC TUBE	"WRL 2A 250V TL LT-5, SR-5"	
IC802	1KA431AZ--	IC REGULATOR	KA431AZ	
L001	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L002	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L051	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L052	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L053	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L201	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L202	5CPX820J--	COIL PEAKING	82UH J (RADIAL)	
L203	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L250	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L251	5CPX101J2T	COIL PEAKING	100UH(BRN-BRN)	
L301	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L302	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L303	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L304	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L365	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L401	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L501	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	®
L502	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L503	5CPX680J2T	COIL PEAKING	68UH(BLU-BLK)	
L504	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L601	5CPX100J2T	COIL PEAKING	10UH(BRN-BLK)	
L821	56C220K695	COIL CHOKE(CAP TYPE)	22UH K (CAP TYPE) 9X11.1	
L823	5CPX470J2T	COIL PEAKING	47UH(YEL-BLK)	
Q001	TZRC104M--	TR	KRC104M AUTO	
Q002	TZTA1273Y-	TR	KTA1273Y(966Y)	
Q201	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q203	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)	
Q204	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q205	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q206	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	®
Q207	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	®
Q208	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q301	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q501	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q601	TZSR2001--	TR	KSR2001 (AUTO)	
Q602	TZRC104M--	TR	KRC104M AUTO	
Q603	TZRC104M--	TR	KRC104M AUTO	
Q670	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q671	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	
Q802	TZTC3203Y-	TR	KTC3203Y (2120Y)	
Q821	TZTC3205Y-	TR	KTC3205Y (2236Y)	
Q822	TZTC3205Y-	TR	KTC3205Y (2236Y)	
Q825	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	
Q826	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
SW502	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW503	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW504	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW505	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW506	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW507	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW508	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
SW509	5S50101Z97	SW TACT	THVV952GBA 9.5M AUTO	
X301	5XE4R433TB	CRYSTAL QUARTZ	HC-49/U 4.433619MHZ 15PPM	
Z0013	PVMPJAS147	PCB MAIN AXIAL AS	DVST7L3S-AQ	
AM31	2TM1456000	TAPE MASKING	SI-602	
AM31A	2TM110620R	TAPE MASKING	SI-600N RED	
AM31B	2TM1106200	TAPE MASKING	SI-600N	
C002	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C005	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C054	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C062	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C067	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C153	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C159	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C160	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C209	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C220	CCZB1H391K	C CERA	50V B 390PF K (AXIAL)	
C321	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C323	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C324	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C326	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C329	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C337	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C361	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C368	CCZF1H104Z	C CERA	HIKF 50V 0.1MF Z AXIAL	
C369	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C371	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C372	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C503	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C505	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C507	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C509	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C517	CCZB1H102K	C CERA	50V B 1000PF K (AXIAL)	
C518	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C520	CBZF1E223Z	C CERA SEMI	25V Y5V 0.022MF Z	
C523	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C527	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C537	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
C690	CCZB1H331K	C CERA	50V B 330PF K (AXIAL)	
C691	CCZB1H331K	C CERA	50V B 330PF K (AXIAL)	
C835	CBZP1C103M	C CERA SEMI	16V Y5S 0.01MF M (AXIAL)	
D001	DZN4148---	DIODE	1N4148 AUTO 52MM	
D003	DZN4003---	DIODE	IN4003	
D004	DZN4003---	DIODE	IN4003	
D301	DZN4148---	DIODE	1N4148 AUTO 52MM	
D503	DZN4148---	DIODE	1N4148 AUTO 52MM	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
D506	DZN4148---	DIODE	1N4148 AUTO 52MM	
D509	DZN4148---	DIODE	1N4148 AUTO 52MM	
D510	DZN4148---	DIODE	1N4148 AUTO 52MM	
D515	DZN4148---	DIODE	1N4148 AUTO 52MM	
D516	DZN4148---	DIODE	1N4148 AUTO 52MM	
D517	DZN4148---	DIODE	1N4148 AUTO 52MM	
D518	DZN4148---	DIODE	1N4148 AUTO 52MM	
D519	DZN4148---	DIODE	1N4148 AUTO 52MM	
D520	DZN4148---	DIODE	1N4148 AUTO 52MM	
D521	DZN4003---	DIODE	IN4003	
D522	DZN4003---	DIODE	IN4003	
D523	DZN4003---	DIODE	IN4003	
D524	DZN4148---	DIODE	1N4148 AUTO 52MM	
D525	DZN4003---	DIODE	IN4003	
D526	DZN4003---	DIODE	IN4003	
D603	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
D604	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	®
D627	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
D628	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
D629	DZN4148---	DIODE	1N4148 AUTO 52MM	
D630	DZN4148---	DIODE	1N4148 AUTO 52MM	
D631	DZN4148---	DIODE	1N4148 AUTO 52MM	
D805	DZEG01C---	DIODE	EG01C	
D806	DZN4003---	DIODE	IN4003	
D807	DZUZ3R0BSB	DIODE ZENER	UZ-3.0BSB(3.01-3.22V)	
D808	DZN4148---	DIODE	1N4148 AUTO 52MM	
D823	DZGDZP16B-	DIODE ZENER	GDZP16B1	
D824	D1SS244---	DIODE	1SS244	
D825	DZUZ33BSB-	DIODE ZENER	UZ-33BSB(30.32-31.38V)	
D826	DZUZ5R6BSB	DIODE ZENER	UZ-5.6BSB(5.46-5.70V)	
D827	DZUZ13BSB-	DIODE ZENER	UZ-13BSB(12.59-13.16V)	
D828	DZN4003---	DIODE	IN4003	
D829	DZN4003---	DIODE	IN4003	
JP005	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP014	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP016	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP018	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP019	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP020	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP036	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP037	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP038	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP045	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP047	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP051	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP053	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP061	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP063	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP073	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP075	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP077	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP078	85801060TA	WIRE COPPER	0.6X52MM TAPING	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
JP085	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP088	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP102	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP103	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP104	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP107	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP108	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP113	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP114	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP115	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP118	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP126	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP127	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP134	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP137	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP160	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP161	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP215	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP221	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP228	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP234	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP235	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP236	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP237	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP250	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP251	85801060TA	WIRE COPPER	0.6X52MM TAPING	
JP252	85801060TA	WIRE COPPER	0.6X52MM TAPING	
L151	5CPZ569K02	COIL PEAKING	5.6UH K (AXIAL 3.5MM)	
L311	5CPZ100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
L340	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L341	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	®
L342	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L602	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L604	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L605	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L606	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L609	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
L610	RD-AZ301J-	R CARBON FILM	1/6 300 OHM J	
L612	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L613	5CPZ229K02	COIL PEAKING	2.2UH K(AXIAL 3.5MM)	
L803	5PB13857--	COIL BEAD	BI3857(AXIAL)	
L822	5PB13857--	COIL BEAD	BI3857(AXIAL)	
R004	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R005	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R006	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R009	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R010	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R051	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R052	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R054	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R055	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
R152	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
R153	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J	
R154	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R155	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R201	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R204	RD-AZ113J-	R CARBON FILM	1/6 11K OHM J	
R209	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J	
R210	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J	
R214	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R215	RD-AZ911J-	R CARBON FILM	1/6 910 OHM J	
R216	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R217	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
R218	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J	
R219	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R225	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	
R226	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R227	RD-AZ181J-	R CARBON FILM	1/6 180 OHM J	
R228	RD-AZ561J-	R CARBON FILM	1/6 560 OHM J	
R229	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R230	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R231	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R232	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
R240	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R241	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R264	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R265	85801060TA	WIRE COPPER	0.6X52MM TAPING	
R267	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R268	RN-AZ3902F	R METAL FILM	1/6 39K OHM F	
R269	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R272	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	
R273	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	
R274	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	
R275	RD-AZ821J-	R CARBON FILM	1/6 820 OHM J	
R276	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J	
R277	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R278	RD-AZ511J-	R CARBON FILM	1/6 510 OHM J	
R301	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R303	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R305	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J	
R306	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J	
R307	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J	
R312	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R313	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J	
R314	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R315	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	
R316	RD-AZ203J-	R CARBON FILM	1/6 20K OHM J	
R317	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R318	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R319	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J	
R321	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R322	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	
R325	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	
R326	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
R329	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R330	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	
R331	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R362	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R401	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R403	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R501	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R502	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R503	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R504	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R509	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R512	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R513	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R514	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	
R516	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R522	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R523	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J	
R524	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	®
R526	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R528	RD-AZ201J-	R CARBON FILM	1/6 200 OHM J	
R530	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R531	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R532	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R533	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R535	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R537	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R538	RD-AZ912J-	R CARBON FILM	1/6 9.1K OHM J	
R540	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	
R541	RN-AZ103F-	R METAL FILM	1/6 10K OHM F	
R542	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R543	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R544	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R545	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R546	RD-AZ121J-	R CARBON FILM	1/6 120 OHM J	
R549	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J	
R551	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J	
R552	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R553	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	
R554	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J	
R601	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R602	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J	
R603	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J	
R604	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R605	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R607	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R608	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	
R609	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J	
R610	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R612	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
R613	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	®
R614	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	
R615	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
R618	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	®
R619	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J	
R670	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
R671	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	®
R677	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R678	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J	
R801	RC-2Z565KP	R CARBON COMP	1/2 5.6M OHM K	
R803	RD-4Z394JS	R CARBON FILM	1/4 390K OHM J SMALL	
R804	RD-4Z394JS	R CARBON FILM	1/4 390K OHM J SMALL	®
R805	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J	
R806	RD-2Z820JS	R CARBON FILM	1/2 82 OHM J SMALL	®
R807	RD-2Z820JS	R CARBON FILM	1/2 82 OHM J SMALL	
R808	RD-AZ681J-	R CARBON FILM	1/6 680 OHM J	
R821	RD-4Z360JS	R CARBON FILM	1/4 36 OHM J SMALL	
R822	RD-AZ182G-	R CARBON FILM	1/6 1.8K OHM G	
R823	RD-AZ680J-	R CARBON FILM	1/6 68 OHM J	
R824	RD-AZ470G-	R CARBON FILM	1/6 47 OHM G	
R825	RD-AZ132G-	R CARBON FILM	1/6 1.3K OHM G	
R827	RD-4Z622J-	R CARBON FILM	1/4 6.2K OHM J	
R828	RD-AZ180J-	R CARBON FILM	1/6 18 OHM J	
R829	RD-4Z751J-	R CARBON FILM	1/4 750 OHM J	
R830	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	
UM01	97P65304MA	PCB MAIN	330X246X1.6T(DVST7X3D)	
Z0014	PVMPJVE068	PCB MAIN J/V ONLY AS	"DVST7X3D-AL/I(304MA,HIFI)"	
JP002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP006	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP015	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP027	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
JP043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP067	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP070	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP071	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP072	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP074	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP076	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP079	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP080	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP081	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP084	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP086	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP087	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP089	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP090	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP091	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP092	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP093	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP094	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP096	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP097	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP098	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP099	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP100	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP101	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP105	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP106	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP109	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP110	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP111	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP112	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP117	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP119	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP120	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP121	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP122	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP123	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP128	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP130	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP131	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
JP133	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP135	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP138	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP139	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP140	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP141	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP142	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP146	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP147	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP148	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP150	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP152	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP153	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP154	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP155	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP156	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP158	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP159	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP162	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP163	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP165	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP166	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP167	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP168	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP169	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP170	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP171	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP172	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP173	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP174	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP175	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP177	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP178	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP179	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP180	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP181	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP182	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP183	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP184	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP185	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP189	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP190	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP191	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	

LOC.	PART-CODE	PART-NAME	PART-DESC.	REMARK
JP192	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP193	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP194	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP195	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP196	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP197	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP198	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP199	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP200	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP201	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP202	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP203	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP204	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP205	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP206	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP207	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP208	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP209	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP210	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP211	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP212	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP213	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP214	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP218	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP219	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP220	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP222	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP223	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP224	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP225	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP226	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP227	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP230	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP231	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP240	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP242	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP243	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP244	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP246	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP247	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP248	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
JP249	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	